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TO THE

CALCUTTA GAZETTE

PHOM

January to December 1871.

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CALCUTTA GAZETTE

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of 1871

SUPPLEMENT TO

T.he Calcutta Gazette.

WEDNESDAY, JANUARY 4, 1871.

OFFICIAL PAPERS.

Non-Subscribers to the Gazette may receive the Supplement, separately, on payment of six Rupees per annum if delivered in Calcutta, or twelve Rupees if sent by Post.

Report on the state of the Salt Market during the Second Quarter of 1870-71.

From R. L. Mangles, Esq., Officiating Secretary to the Board of Revenue, Lower Provinces, to the Officiating Secretary to the Government of Bengal, Revenue Department,—
(No. 676C, dated the 12th December 1870.)

I AM directed by the Board of Revenue to submit the following report on the state of the saft market for the second quarter of 1870-71, comprising the months of July, August, and September last.

The quantity of Government salt sold at the Presidency under wholesale rowannahs amounted to maunds 3,455, as shewn in the margin, giving a monthly average of maunds 1,151 against maunds 3,335 in the preceding quarter. The total sales, which, as in the previous seven quarters, were confined to the Hidgellee stocks, show a decrease of maunds 6,550 as compared with those in the 1870 ... Mds. 1,510 3,455 Total ...

3. The sales of Government salt at Pooree amounted to maunds 2,260, against maunds 8,300 in the preceding quarter and maunds 72,818 in the corresponding quarter of 1869-70. The decrease in the sales during the last four quarters, as compared with previous sales, is attributable, as already explained, to the exhaustion of the stocks of Kurkutch salt at the several approach. The Popper salt new in store of Popper and stocks of force in salt at the several aurungs. The Pungah salt now in store at Pooree, as stated before, is not in great demand there, owing to supplies of Kurkutch, which is less expensive, being available in the market. Arrangements are still in progress for the immediate disposal of the whole storage.

The quantities of excise salt sold in Cuttack, Balasore, Pooree, and the 24-Pergunnahs, from the stocks of the different seasons, and the quantities which remained in store at the close of the quarter, are shewn in the following statement:-

	cur	TACK.		BALASOR	POOREE.	24-PERGUN- NAHS.	
	MANUP	ACTURE OF	М	ANUFACTUR	e of	MANUFA TURE OF	MANUPACTURE
* D	1867-68.	1869-70.	1867-68.	1868-69.	1869-70.	1869-70.	1869-70.
Balasore, at close of last	Mds. Sra.	Mds. Srs.	Mds, Srs.	Mds. Srs.	Mds. Srs.	Mds. Srs.	Mds. Srs.
quarter Manufactured during	146 10	61,343 10	6,249 25	15,990 3	139,571 20	279,834 0	16,675 6
the quarter Surplus found during							
the quarter		11,009 29	27.44		1,345 20	87,827 3	2,977 35
Total	146 10	62,352 39	6,249 25	15,990 3	140,917 0	367,661 3	19,653 0
Quantity sold during the quarter Deficiency or wastage		16,464 19 397 28	1,871 0 1,848 10	2,819 23 1,078 39	17,378 0	50,160 O	4,250 o
Totaly		16,862 7	3,210 10	3,898 22	17,378 0	50,160 0	4,250 0
dalasere, at close of quarter	148	45,490 32	3,030 15	12,001 21	123,539 0	317,501 0	15,403 0

It will be seen from the above that the total clearances of excise salt during the quarter amounted to maunds 92,443-2, against maunds 30,037-11 in the previous quarter, and maunds 38,210 in the corresponding quarter of 1869-70. There was no manufacture during the quarter, the season for manufacturing salt having closed with June. The large quantity shewn as surplus, amounting to maunds 103,160-7, is the difference between the estimate made of the manufacture at the aurungs and the quantity stored in the golahs after weighment.

5. The subjoined statement shews, comparatively, the tot limportations into the port of Calcutta and the total clearances of sea-imported salt during the quarter and the corresponding quarter of the two preceding years:

		2ND QUARTER	of 1868-69.	2ND QUARTER	or 1869-70.	2ND QUARTER	от 1870-71.
Description of Salt.		Imported,	Cleared,	Imported.	Cleared.	Imported.	Cleared.
		Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
iverpool Pungah		2,028,990	1,743,114	1,463,720	1,697,830	1,519,803	1,824,74
oreign Kurkutch		207,784	307,628	860,570	257,881	227,203	295,98
ndian Kurkutch	100	87,732	168,367	278,106	377,059	84,400	319,668
CONTRACTOR OF THE PARTY OF THE PARTY	-		30,235	139,772	19,400	45,189	63,48
eylon Total	***	2,319,506	2,249,344	2,242,168	2,852,170	1,876,595	2,503,88

6. The following are the details of the Indian Kurkutch salt shewn above :-

			2ND QUARTE	n or 1868-69.	2ND QUARTER	от 1869-70.	2ND QUARTER OF 1870-71.		
From whe	ence imported		Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.	
			Mds.	Mds.	Mds.	Mds-	Mds.	Mds.	
Kurrachee					4,100			2,400	
		#IIC	87,782	* 168,367	185,556	196,207	19,200	190,939	
Bombay					51,000	169,127		0 124,545	
Madras	•••				13,650	11,725		1,784	
Ennore	**		*****		73,800		40,000		
Covelong		***					19,200		
Paticoria				THE WASH					
	Total		87,782	168,367	278,106	377,059	84,400	319,688	

7. The following table shews the total quantity of sea-imported salt remaining in bond at the close of the quarter, as compared with the previous four quarters:—

Where stored.		2nd quarter of 1869-70.	3rd quarter of 1889-70.	4th quarter of 1869-70.	1st quarter of 1s70-71.	2nd quarter of 1870-71.
Sulkea Government golahs		 Mds. 2,382,768	Mds. 2,174,623	Mds. 2,800,621 21,210	Mds. 2,547,841 48,400 152,637	Mde. 1,554,290* 48,400 142,611 74,283
Ghoosery golahs Shibpore ditto Calcutta ditto Chittagong Government golahs	Ξ	 17,102 155,562	4,572 135,698	30,183 355,444	74,2820 10,150 300,877	2,251 239,780
Onicagons Corre	Total	 2,555,482	2,314,893	3,216,458	3,143,187	2,061,573

^{*} Note.—This includes maunds 578 of salt received under section 52 of Act VI. of 1863.

^{8.} The following table exhibits the despatches of salt from Calcutta by water and the three railways via the several salt pass stations into the interior of the country, both east

and west of the river Hooghly, during the quarter under review and the corresponding quarter of the two preceding years:—

Period.	Fid Ballik an).	Fid Sankrail.	Vid Gewa- khaleo.	Vid Kidder- pore.	Pid Balin- ghatta.	By the East Indian Railway,	By the East- ern Bengal Railway.	By the Calcutta and S. E. Railway.
	Mds	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Second quarter of 1868-69	1,377,869	125,309	65,795	90,888	445,158	298,541	12,7991	69
Ditto 1869-70	1,891,552	128,999		77,603	470,960	291,208	12,972	1 47
Ditto 1870-71	1,562,168	135,798	106,126	80,120	445,158	345,340	8,890	12

The quantity of salt despatched by the East Indian Railway to stations beyond Buxar, in the quarter under review, amounted to maunds 7,041, against maunds 4,942 in the preceding quarter and maunds 4,176 in the corresponding quarter of 1869-70.

. 9. The shipments of Liverpool salt for the ports of Calcutta and Chittagong, according to published market reports, were as follows:—

ъ.	Month.		Calcutta.	Chittagong.
July			Tons.	Tons.
August			23,518	2,314
September	 	Total	15,613 52,474	865 3,179

10. The prevailing market prices per hundred maunds of Liverpool and other description of salt, at the close of each fortnight during the quarter under report, as compared with those which obtained at the same periods of last year, are shewn in the following statement:—

Description of Salt.		Prices on 15th July.		Prices on 31st July.		Prices on 15th August.		Prices on 31st August.		Prices on 15th September.		Prices on 30th September.		
•			1869.	1870.	1869.	1870.	1869.	1870.	1869.	1870.	1869.	1870.	1869.	1870.
			Rs.	Rs.	Rs,	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Liverpool Pung	ah		84	74	81	73	75	73	78	61	78	60	76	64
French Kurkut	ch		78	65	77	66	77	64	75	62	78	62	78	68
Jeddah ditto			80	90	80	91	84	95	83	90	77	81	78	78
Ceylon ditto			62	48	62	48	62	47	50	44	55	44	53	43
Scindo ditto-			61	45	61	44	61	44	64	44	64	44	63	44
Bombay ditto			44	42	44	41	53	49	49	48	45	48	45	47
Madras ditto			48	50	48	52	- 51	48	48	48	45	48	45	48

11. The following statement exhibits the total quantities of salt that were available for the private export trade at the several depôts in the Madras Presidency on the first day of each of the three months constituting the present quarter, and the corresponding quarter of the years 1868-69 and 1869-70:—

	Month.	1868-69.	1869-70.	1870-71.
		Mds.	Mds.	Mds.
luly		 603,748	740,162	770,130
Angust		 902,568	727,070	766,500
September		 875,448	754,092	737,160

^{12.} The following statement shews the quantities of sea-imported salt cleared from bond at Chittagong during the quarter under review and the corresponding quarter of 1869-70. No

salt was bonded at this port during the quarter, nor have any transactions in sea-imported salt been reported for the quarter from any of the Orissa ports.

	ADMITTED	INTO HOND.	CLEARED V	ED PROM BOND.		
Description of Salt.	1809-70.	1870-71.	1869-70.	1870-71.		
Liverpool Pringah	Mds.	Mds	Mds. 53,938 	Mds. 59,228 o 2,250 4,308		
dadras Kurkutch Total			59,110	65,686		

Abstract of the Results of the Hourly Meteorological Observations taken at the Surveyor-General's Office, Calcutta, in the month of November 1870.

LATITUDE 22° 33' 1" north, longitude 88° 20' 34" east. Height of the cistern of the standard barometer above the sea level, 18.11 feet.

standard barometer above the sea level, 18:11 feet.		SHOW			
MONTHLY RES	SULTS.			Appendix S	ä
A STATE OF THE STA				Inches.	
Con the month		•••		29-956	
Mean height of the barometer for the month	the 20th			30-147	
Mean height of the barometer occurred at 9 A.M. on Max. height of the barometer occurred at 3 P.M. on	the 4th			29.744	
	one run			0.403	
Entrance vange of the barometer during				30-223	
Moan of the daily max. pressures				29.902	
				0.121	
Ditto ditto min. ditto Mean daily range of the barometer during the mon	tn				
Mean ducty range	70000000000000000000000000000000000000			0	
				75.9	
Mean dry bulb thermometer for the month				87.0	
Mean dry bulb thermometed at 2 r.m. on the 2nd Max. temperature occurred at 2 r.m. on the	200			62.0	
Max. temperature occurred at 6 and 7 a.m. on the Min. temperature occurred at 6 and 7 a.m. on the	zotn			25.0	
to the second of the temperature during	1			82.2	ä
Mean of the daily max. temperature				70.8	
Mean of the daily min. ditto				11.4	
Ditto ditto min. ditto Mean daily range of the temperature during the mo	nth				
Mean daily range of the competition				71.0	
y at amoster for the month				49	B
Mean wet bulb thermometer for the month Mean dry bulb thermometer above mean wet bulb	thermometer			67.6	Ñ
Mean dry bulb thermometer above menth					ă
Computed mean dew-point for the month Mean dry bulb thermometer above computed mean	dew-point			8.3	
Mean dry bulb thermometer above compaced mount				Inches.	
			•••	0.672	
Mean elastic force of vapour for the month					
			T	roy grain.	ä
			1	7.32	
Mean weight of vapour for the month	towntion				
Mean weight of vapour for the month. Additional weight of vapour required for complete	saturation bei	no unity		0.77	
Additional weight of vapour required for complete Mean degree of humidity for the month, complete	saturation ber	ng murey		9	
Mean degree of the mo	nth			137 4	
Mean max. solar radiation thermometer for the mo	Itou				
				Inches.	ä
				. 1.22	
Rained 6 days, -max. fall of rain during 24 hours			9 10 50	1.66	
Total amount of rain during the month		anamamet	er durin	gl 1.56	
Total amount of rain during the month Total amount of rain indicated by the gauge* atta	ched to the	anemoniec		1.50	
the month			SW&N	by W	
- " direction of the wind			分 學過過		
Prevailing direction of the Height 70 feet 10 in	ches above ground.	0	NAUTH S	EN.	
		GOPEI	NAUTH		

GOPEENAUTH SEN, In charge of the Observatory.

The 29th December 1870.

Results of the Meteorological Observations taken at the Surveyor-General's Office, Calcutta, from 22nd to 31st December 1870.

		eter.	Тив	RMOM	ETER.	Tive		dew.	bumidity.	Win	D.		•	
Dec 22n 23 24i 25i 26i 27i 28t	Date.	Mean reduced barometer.	Highest reading.	Lowest reading.	Max. solar radia-	Mean dry bulb.	Mean wet bulb.	Computed mean point.	Mean degree of hum	Prevailing direction.	Max. pressure.	Daily relocity.	Rain.	GENERAL REMARKS.
		Inches.		0	0	0	0	0			1b	Miles.	Ins.	
Dec	22nd	29.930	77.0	59.0	129.0	67.1	61.3	56.7	0.71	W by 8 & N W	***	80.2	***	Clear. Slightly foggy
130	23rd	30.013	75'5	59.0	129.5	66.4	60.4	55.6	.70	N W & N	***	121.4	***	at 6 & 7 P.M. Clear.
	24th	958	75.3	60.5	127.0	66.7	61.1	56:6	.72	N by E & N	***	205.4		Clear.
	25th 26th	029 29.983	74.0 74.5	59·1 59·4	130 0 129 4	66·1	60·8 60·5	56.8 56.0	·74 ·72	NNE&N N, N by E & W N W		126:0 131:2		Clear & cirro strati. Clear & cirrocumuli.
	27th	1982	74.6	48.0	126.8	65:7	60.2	56:3	.73	WNW		87.7		Clear. Foggy at 11
	28th	30.018	75-9	58.2	128.0	66-2	61.6	57.9	.76	WNW		79.0		P.M. Clear. Slightly foggy from midnight to 3, and at 7 P M., and
	29th	*004	77.2	59.6	130.8	67.0	61.4	56.9	.71	WNW		75'8		from 7 to 11 P.M. Clear. Foggy from midnight to 7A.M.,
	30th	29:961	77.8	60.8	130.0	68-2	62.7	58:3	-72	WNW		88.6		and 7 to 11 P.M. Clear, cirro cumul and cirri. Foggy from midnight to 2, and at 8A.M. and
	31st	.916	80.1	62.8	134.8	70.2	63.9	58.9	.69	W & W N W		121.7		from 7 to 11 P.M. Clear. Slightly foggy from 7 to 11 P.M.

The mean barometer, as likewise the dry and wet bulb thermometer means, are derived from the twenty-four hourly observations made during the day.

The dew-point is computed with the Greenwich constants.—The figures in column 10 represent the humidity of the air, the complete saturation of which being taken at unity.—The receiver of the lower rain gauge is $1\frac{1}{2}$ feet, and that of the anemometer 70 feet 10 inches, above the level of the ground.—The velocity of wind, as indicated by Robinson's anemometer, is registered from noon to noon.

The extreme variation of temperature during the past ten days The max. temperature during the past ten days The max. temperature during the corresponding period of the past year The mean humidity during the past ten days The mean humidity during the corresponding period of the past year	 22·1 80·1 79·2 0·72 0·66	
The total fall of rain from 22nd to 31st \{ by lower rain gauge by anemometer gauge Ditto ditto, average of 16 previous years Ditto between the 1st January and the 31st December Ditto, ditto ditto, average of 16 years	 Nil Nil 0·01 60·26 69·51	

Gopeenauth Sen, In charge of the Observatory.

The 3rd January 1871.

Weekly Return of Traffic Receipts on Indian Railways.

· EAST INDIAN RAILWAY-MAIN LINE.

* Approximate Return of Traffic for Week ended 17th December 1870 on 1,1314 miles open.

	100	COACHING TRAFF	ric.	MERCHAND	ISE NO MINE	RAL TRAFFIC.	
	Number of passengers.	Coaching	receipts.	Weight carried.	A Rec	eipts.	Total traffic receipts
		Rs. As. P.	£ s. d.	Mds. Srs	Rs. As. P.		Lo s. d.
Total traffic for the week Or per mile of railway For previous 23 weeks of half, year	80,8861 2,002,1281	1,28,670 3 6 113 11 6 30,69,254 14 4	11,794 15 5 10 8 6 281,348 7 4	612,946 20 11,199,569 0	*4,51,635 14 .0 390 2 4 80,00,881 9 5	36 11 9	53,204 14 6 6. 47 0 3 1,014,763 10 3
Total for 24 weeks Comparison.	2,178,015	81,97,925 1 10	293,143 2 9	11,812,506 20	84,52,517 7 5	774,814 2 0	1,067,957 4 9
Total for corresponding week of previous year	88,393	1,47,056 15 11	13,480 4 6	732,849 10	4.16,326 8 9	50,163° 5 4	51,643 -9 10
Per mile of railway correspond- ing week of previous year Total to corresponding date of		180 0 5	11 18 5	11411	368 1 8	33 14 10	45 13 03
previous year	2,239,078	33,85,703 0 5	310,356 2 4	13,766,965 85	75,19,240 11 8	689,263 14 8	9,99,619 27 0

Rs. 10,513-14-3 added on account of freight of losomotive coal carried on Jubbulpore line.

EAST INDIAN RAILWAY-JUBBULPORE LINE.

Approximate Return of Traffic for Week ended 17th December 1870 on 223 miles open.

Total traffic for the week Or per mile of railway For previous 23 weeks of half-year	8,548 83,060}	TALK DESTRUCTION		1,098 3 1 4 18 22,983 3 1	39,873 10	Rs. As. P. 13,165 3 0 59 0 7 2,04,414 3 11	£ s. d. 1,206 16 2 5 8 3 18,787 19 5	2,305 D 1 10, 6 D 41,721 8
Total for 24 weeks Companison.	86,008	2,62,706	1 8	24,081 7 1	6,56,610 0	2,17,579 6 11	19,944 15 7	44,028 3 5
Total for corresponding week of previous year Per mile of railway corresponding week of previous year Total to corresponding date of previous year	3,170± 72,739	9,198 41 2,00,680	3 11	843 3 3 15 18,395 14		8,519 6 2 58 3 3 1,94,821 15 7	780 18 8 3 10 1 17,858 13 6	1,634 1 11 7 5 8 36,254 7 6

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for Week ended 17th December 1870 on 1134 miles open.

				and the second			TOTAL STATE OF THE PARTY.	
Total traffic for the week	23,8704	Rs. As.	200	£ s. d.	Mds. Srs.	Rs. As. P.	£ s. d.	£ s. d.
Or per mile of railway For previous 24 weeks of half-year	206 571,638}		3	11 4 7 27,425 9 25	955 0 2,523,147 81	5,85,100 6 9h	20 4 9 53,634 4 1a	31 9 4 81,059 13 4
Total for 25 weeks COMPARISON.	595,009	8,18,061 9	2	28,897 6 11	2,631,255 35	6,10,103 5 5	65,926 0 111	84,623 7 1
Total for corresponding week of previous year Per mile of milway corresponding	23,182}	14,398 9	92	1,319 17 6	1,23,894 32	17,875 0 11	1,638 10 11	2,058 8 5
week of previous year Total to corresponding date of pre- vious year	205 586,159	127 2 3,42,769 10		11 13 1 31,420 11 2	1,094 0 2,379,164 25	167 13 4 4,96,072 5 6	14 9 4 45,478 6 0	26 2 5 76,893 17 2
	AND DESCRIPTION OF THE PERSON		100					

CALCUTTA AND SOUTH EASTERN STATE RAILWAY.

Approximate Return of Traffic for Week ended 17th December 1870 on 28 miles open.

Total traffic for the week Or per mile of railway For previous 11 weeks of half-year	7,004 253 54,761§	Ra. As. 1,016 2 36 4 9,261 12	0 8	£ e. 101 12 3 12 920 3	3	Mds. Srs. 10,814 10 186 8 125,240 3	Rs. As. 512 (18 4 3,081 10	0	£ s. d, 51 4 0 1 16 7 398 3 11	£ s. d. 152 16 3 5 9 4 1,324 7 5
Total for 12 weeks	61,855]	10,277 14	0	3,027 15	p	186,164 18	4,400 10	9	449 7 11	1,477 3 8
Total for corresponding week of previous year per mile of railway corresponding	4,454	877 6	3	80 B	7	9,964 0	310 (. 6	28 9 1	108 17
week of Crevious year	159	81 5	4	2 17	5	350 0	11 1	6	1 0 4	3 17 (
Total to corresponding date of pre-	48,2371	9,001 11	6	833.8	2	109,845 0	3,959 11	8	869 1967	1,196 7

EAST INDIAN RAILWAY—MAIN LINE.

Approximate Return of Traffic for week ended 24th December 1870, on 1,131 miles open.

		COACHING TRAPPIO.		MERCHANI	DISE AND MINERAL TRAFFIC.	Total Traffic
	Number of passengers.	Coaching receipts.	H	Weight carried.	Receipts.	Receipts.
Total treffic for the week Or per mile of railway For previous 24 weeks of half year	83,038 • 2,173,015	Rs. As. P. £ s. 1,52,248 7 11 13,956 134 8 11 12 31,97,925 1 10 293,143 :	3 3	Mds. Srs. 627,184 30 11,812,505 20	Rs. As. P. & s. d. 4.68,354 14 9 42,932 10 8 443 14 9 57 18 11 84,52,617 7 5 774,814 2 0	56,888 18 11 50 5 7
Total for 25 weeks COMPARISON.	2,256,053	38,50,173 9 9 307,099	0	12,439,691 10	80,20,872 6 2 817,746 12 8	1,124,845 17 8
Total for corresponding week of previous year Per mile of railway correspond- ing week of previous year Total to corresponding date of pre- vious year	88,080½ 2,327,158½	1,59,497 9 9 14,620 1: 141 0 4 12 1: 35,45,200 10 2 324,976 1:	7	903,149 10 14,670;115 5	5,05,780 8 0 40,363 4 3 447 3 2 40 19 10 80,25,021 3 8 735,626 18 11	

EAST INDIAN RAILWAY-JUBBULPORE LINE.

Approximate Return of Traffic for week ended 24th December 1870, on 223 miles open.

Total traffic for the week Or per mile of railway For previous 24 weeks of half year	3,795 86,608§		0 9 5 I	1,519 3	11	Mds. Srs. 50,625 30 656,610 0	Rs. As. 19,959 6 85 0 2,17,579 6		£ 8 1,787 18 7 15 19,944 15	11 10	£, s 3,257 9 14 12 44,026 3	2 10
Total for 25 weeks	90,403}	2,79,279	2 5	25,600 11	0	707,235 30	2,36,588 13	2	21,682 14	6	47,283 6	3 8
Total for corresponding week of previous year Per mile of railway correspond-	3,733	13,634	6 0	1,219 16	4	50,213 10	14,011 1	0	1,284 7	0	2,534 3	3 4
ing week of previous year Total to corresponding date of		61	2 3	5 19	1		62 13	3	5 15	2	11 7	7 1
previous year	76,472	2,14,314 1	1 9	19,645 10	4	830,688 20	2,08,833 0	7	19,143 0	6	\$9,788 10	10

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for week ended 24th December 1870, on 1131 miles open.

Total traffic for the week Or per mile of railway For previous 25 weeks of half year	27,998a 247 595,000	Rs. As 14,528 1 128 4 3,13,061 6	0 7	1,331 15 11 15	8 2	Mds, Srs, 100,900 21 891 0 2,631,255 35	Rs. 22,445 198 6,10,102	3	45	2,007 18	9 8	£ s. d. 3,389 5 4 29 18 6 84,023 7 1
Total for 26 weeks	623,0071	3,27,590 1	11	86,029 1	-	2,732,156 16	6,32,547	9	91	57,983 10	74	
Total for corresponding week of previous year Per mile of railway corresponding week of previous year Total to corresponding date of previous year	27,432} 242 613,590}	19,188 18 169 5 8,61,938 16	0	1,758 19 15 10 83,179 10	8	113,612 1 1,003 0 2,402,776 25	18,117 150 5,14,180	15		1,660 15 14 15 47,134 1	1.3	3,419 15 3 30 3 11 80,513 12 5

CALCUTTA AND SOUTH-EASTERN STATE RAILWAY.

Approximate Return of Traffic for week ended 24th December 1870, on 28 miles open.

Total traffic for the week Or per mile of railway For previous 12 weeks of half year	7,308 261 61,855h	Rs. 1,105 39 10,277	47	9 7	110	10 18	11	Mds. 11,490 411 136,154	0	Rs. 354 12 4,493	8 10	6 7		9 5	d. 1 4 11	£ 145 5 1,477	4
Total for 13 weeks Comparison.	69,1631	11,383	2	0	1,138	6	4	147,653	13	4,843	8	3	484	17	6	1,623	3
Total for corresponding week of previous year Per mile of railway, corresponding	4,825	840	0	9	77	0	1	8,423	0	840	8	0	81		4	109	4
Week of previous year Total to corresponding date of pre- vious year	154 52,562§	9,931	0		910	15	9753 B	301 118.288	NEED B	12 4,300		28 DS	394	2	SUPE.	1,304	17 12

Meteorologica	Telegraphic	Report for	the period	25th to	31st	December 1870	ģ
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			Baromeer	Barometer	THERMO	METRE.	Humi-	Win	D.		0	
STATIOSS.	Date.	Hour.	reduced to 32°.		Dry.	Wet.	dity Sat	Direction.	Velocity,	Rain.	Clouds.	Weather initials.
CALCUTTA.	28th 28th 27th 28th 28th 29th 30th 31st	10 16 10 16 10 16 10 16 10 16 10 18 10 11 10 11 10 11 10 11 10 10 10 10 10	30·118 29·909 30·063 29·929 80·052 29·934 30·108 29·969 30·078 29·969 30·025 29·900 29·907 29·987 29·987	30·137 29·988 30·083 29·948 30·071 29·953 30·127 29·988 30·097 29·957 30·044 29·918 30·016 29·873	66-5 73-0 68-8 73-4 67-8 73-6 67-5 74-7 69-2 76-0 70-2 77-0 72-0 79-5	61:8 63:0 62:0 62:7 61:5 63:6 62:7 65:7 62:6 63:5 63:5 66:0 66:0 66:2	76 54 65 52 66 55 76 59 70 46 67 53 66 55	N N E N N W N by E W N W W N W W N W W N W W N W W N W W N W W N W W N W W N W W N W W N W W N W		**************************************	CS CK CK	\$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SAUGOR INLAND.	25th 26th 27th 28th 29th 30th 31st	10 16 10 16 10 16 10 16 10 16 10 16 10 16	30 132 29 980 30 067 29 940 30 066 29 945 30 112 29 983 30 088 29 946 30 041 29 911 30 014 29 867	30·138 29·986 30·073 29·946 30·072 29·951 30·118 29·988 30·094 29·952 30·047 29·917 30·020 29·863	68 75 69 75 69 75 70 77 70 78 72 79 73 81	64 65 65 64 66 66 67 71 68 68 67	79 55 79 55 74 59 79 63 79 69 71 54	NNE NNE NNE NNE NNE NNE NE NE NE NE NE N	6:3* 6:2* 7:7*		C, CK	b, m
CHITTAGONG.	26th 26th 27th 28th 29th 30th 31st	10 16 10 16 10 16 10 16 10 16 10 16 10 16 10	30°020 29°895 29°943 29°898 99°943 29°814 29°967 29'874 29°953 29°894 29°930 29°812 29°877 29°776	30 134 30 009 30 0057 29 942 30 0057 29 982 30 0051 29 987 30 0067 30 044 29 925 29 981	72 69 71 73 70 77 70 77 70 76 71 77 71 80	66 64 64 64 65 65 67 64 66 64 66 67	71 74 75 58 70 49 75 56 70 56 66 53 70	ESE SW NE W ESE W NE W ENE W ESE	5-3* 9-7* 3-0* 7-3* 3-7* 6-9* 4-7* 4-9* 4-9* 7-5* 2-8* 5-2		C	b, m b, m b, m b, m b, m b, m b, m b, m
MADRIE	24th 25th 26th 27th 28th 29th 30th 31st	10 16 16 16 16 16 16 16 16 16 16 16 16 16	30'033 29 945 30'032 29'930 29'994 29'881 29'896 30'005 29'912 30'017 29'912 29'992 29'873 29'981 29'881	30 063 29 975 30 062 29 960 30 024 29 911 30 011 29 926 30 035 29 942 30 047 29 942 30 022 29 903 30 011 29 963	82 70 82 79 80 80 79 78 76 73 78 77 80 78 80	72 69 70 68 71 70 70 70 73 72 78 71 78 71	59 58 59 54 62 58 61 65 86 95 77 73 70 65 62	N by W N N N N by W N N N by W N N by W N N N N N N N N N N N N N N N N N N N	18* 16* 16* 11* 8* 14* 11* 8* 12* 11* 9*	0.08		b o b c b c b c b c b c b c b c b c b c
CUTTACK.	24th 25th 26th 27th 28th 29th 30th 31st	10 16 10 10 10 10 10 10 10 10 10 10 10 10 10	30 087 29 989 30 095 29 952 30 028 29 952 30 048 29 912 30 065 29 929 30 045 29 904 29 990 29 980	30·171 30·073 30·189 30·138 30·113 29·976 30·133 29·996 30·150 30·013 30·013 30·013 30·013 30·014 30·014	71 74 67 73 66 72 67 72 67 74 68 76 70 80 70	76 61 68 61 63 61 62 60 62 63 68 63 68 65 65 65	78 53 72 69 54 73 64 53 79 72 74 48 75	N N E N W N W N W N W S W N W W N W W N W N W			C, CK	Fair.
AKTUB.	25th 26th 27th 28th 29th 30th 31st	16 10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 10 10 10 10 10 10 10 10 10 10 10 10	29·831 30·082 29·936 30·012 29·911 30·010 20·944 30·050 29·929 30·007 29·939 29·939 29·939 29·939 29·945 29·816	29·914 30·098 29·051 30·028 29·924 30·026 29·959 30·006 29·944 30·023 29·944 30·023 29·954 20·966 29·954 29·954 29·954 29·954 29·954 29·954 29·954 29·954 29·954 29·954	78 72 76 79 76 69 77 70 77 70 77 70 77 77 78	67 66 69 67 75 65 67 65 68 68 68 68 67 70	63 71 61 75 95 79 63 79 60 79 60 79 60 75 65	N N W N E N N E	1.4* 8:2* 14*0* 8:2* 2:1* 8:2* 4:2* 12:0* 4:1* 2:4* 4:2* 1:6* 4:2*		C	Fair, b b b b b b b b b b b b b b b b b b

· Velocity of wind in miles per hour.

CALCUTTA,
The 31st December 1870.

HENRY F. BLANFORD.

Meteorological Reporter to the Government of Bengal.

Weekly Report of Rainfall compiled at the Meteorological Reporter's Office.

	II.	State	tions.		1 from o 18th 870.	from o 25th		R	ANUARY	M 187	
	CIRCUIT,				Rainfall from 12th to 18th Dec. 1870.	Rainfall from 19th to 25th Dec 1870		Rain	- Printer	to date	REMARKS. *
					Inch.	Inch	1	Inch			
Alg	•	Pooree False Point	***		Nil	Not recei	bou	53:34		Dec. 1	
	ľ		graph	Office	ditto	Nil	vea	64 ·03	25th	Dec. 18 Dec. 18	870. 870.
	, N	Jagipore			ditto	Not rece	ved	49'9'		itto. Dec. 18	870 From 541 D
Sours.	Y	Kendraparah Jugutsingpore			ditto	Not recei		ditto	25th	Dec. 18	870 Ditto
10 B	2	Sumbulpore Balasore	***		ditto	ditto	VOLL	65:83	d	Dec. 18	Ditto.
		Bhuddruck .			2011	ditto	-	52.63 41.11	77	itto. itto	From 16th June, and not receive
	. [Khoofdah			Not receiv		-	45:08	1	Nov. 18	bth to 11th Dec.
	1	Midnapore Gurbetta			ditto	ditto		46.61	20th 1	Nov. 18	370.
		Tumlook Bancooran	***		Nil	ditto	1	8.76	25th	Jet. 18 Jec. 18	From 26th Sept. From 10th October.
		Chyebassa	٠		dieco	ditto		42.26 53.26	a	tto.	The same of the sa
		Pugulia Gobindpore	***		ditto	ditto		48 77	d	itto.	
. 16		Palamow Burdwan	***		Nil	Nil	еп	50.03 52.14	25th I	Dec. 18	70 From 23rd May. 70 From 6th June.
WESTERN.	1	Cutwa	***	*	- Mareco	Not receiv	ed	40.54 37:37	di	tto.	70 From 4th July.
WE	1	Culna Bood-Bood			100000000000000000000000000000000000000	ed ditto		34.19	litth I	lec. 18	70 Ditto.
	1	Raneegunge			14 257	Nil	-	26.84		ec, 18	28th Nov. to 4th Dec.
	1	Sooree Deoghur	***		Not receive			60 19		tto.	The state of the s
	1	Burnee	***	***	1 44	ditto Not receiv	3	47.65 47.75	di	tto. ec. 187	
	11	Hazarcebaugh Pachamba		***	Nil	ditto		59.17	18th D	ec. 187	70 Not received 21st to 27th Nov.
		Ranchee Sasseram	***	***	Nil	ditto Nil		20.68 56.64	25th D	ec. 187	O From 25th July
	!	Saugor Island	***	***		ditto		57*92 80*80	dit	to.	From 28th March.
		Contai Calcutta	***	***	Not receive Nil	d Not receive	be be	55.79	20th N	ov. 187	70.
		Howrah Alipore	***		ditto	Nil ditto		60:69 54:48	25th D	to.	
	11	Barrackpore	***	***	ditto	Not receive	d 5	52:38	25th D	ec. 187	70 From 30th May. 70 From 16th May.
	!	Dum Dum Baraset	***	***	ditto	Nil ditto	1 8	39.04	25th 1)	ec. 187	Ditto.
		Satkherah Bose rhaut	***		ditto	ditto	1 8	39:66	dit	10	Ditto. Ditto.
		Diamond Harbon Barripore	ır		ditto	ditto		37.93 36.95	dit	to .	Ditto.
			***	***	ditto	ditto		86-21	dit		Ditto, and not received 28th
CENTRAL.	113	looghly lessore	***	***	ditto ditto	ditto		8:02	ditt		Nov. to 4th Dec.
TX		Kishnaghur Kanaghat	***	***	ditto	Not received		2:56	18th De	c. 1870	From 17th January.
C		Bongong		***	ditto	Not received		6·62 9·22	Zoth De	c. 1870	From 7th February.
	1	Meharpore	***	•••	ditto	Nil		2.90	A CONTRACTOR		received 7th to 19th M
		Choadangah			Not received				400000		From 7th Feb., and not received 7th to 13th Nov.
	B	Kooshteah Serhampore	***	***	Nil	Not received Nil		7·70 5·11	6th No 25th De		From 7th Feb.
	IF	urreedpore		***	ditto	ditto		6.69 0.86	ditt	0.	
	1	Powlat Khan	***	•••	ditto	ditto		0.28	ditt		From 9th July, and not recorded
	В	Jurrisaul				139.491					1st to 7th Aug. and 26th Sept.
		erozepore			ditto ditto	ditto		9.80	25th Dec	. 1870	
1	M	Indaripore	***		Not received	Not received	No.	3.11	200		From 11th July, and not received 28th Nov. to 11th Dec.
	M	haugu pore ludheypoorah		•••	Nil ditto	Nil	40	0.34	25th Dec	. 1870	From 11th July.
		anka ongbyr	**		Not received	Not received ditto		3.40	18th Dec	1870	From 2nd May. From 25th April.
1.	Je	ttnooie	7		Nil	Nil Not received	70	72	25th Dec	. 1870	
	P	egoosari urneah		***	Not received Nil	ditto	48	27	27th Nov	. 1870	From 25th April. From 16th May.
		ya nerghotty•	***		ditto	Nil ditto		13	Gitto	A THE STATE OF	From 26th September.
. 1		owadah			Not received Nil	Not received Nil		81 1	27th Nov	. 1870	From 13th June.
R N	Be	har			Not received		E0096	623727257414.5		124-126-12	From 20th June, and not received 5th to 11th Dec.
MORIB-W SETREM.	Pa	itna		1505		ditto		46	ditto	er waaaan g	From 21st March, and not received 12th to 18th Dec.
-	Ar	rungabad	***		Not received	Not received	35	97 2	ditto.	1870	From 11th July
	Ba	rh			Nil ditto	ditto Nil	51°	85 1	8th Dec.	1870	From 25th Santombas
	Bu	XAT		,	ditto	ditto	47	26	ditto.	ENLIGHTER PROPERTY OF	From 16th May.
1	Ch	uprah		U der	Nil	Not received Nil	481	14 2	1th Dec. 5th Dec.	1870	
1	Chi	umparun ?			Nil	Not received Nil	674	16 1	1th Dec. 5th Dec.	1870	From 2nd May.
!	Mo	zuffernore			ditto ditto	Not received	45	18 1	8th Dec.	1870-	
11		rhhanoah				Nil	781	10 2	oth Dec.	1870	From 1st March, and not received 5th to 11th Dec.
	Sec	tafiaree			ditto ditto	Not received	N		ditto	1970	From 14th Nov.
1	Dir	anore		N	ot received Nil	ditto Nil	ditt	to 120	oth Nov.	1870 H	From 1st Nav
SERVE	AND S	MOVE THE PARTY		0.12		ALL STREET	44 5	120	oth Dec.	1870	From 14th February.

	101	ll from to 18th 1870.	II from to 25th 1870.	RAIN	PROM 1st WARY 1870.	REMARKS.
Ставотт	Stations.	Rainfall from 12th to 18th Dec. 1870.	Rainfall from 19th to 25th Dec. 1870.	Rain.	Up to date.	•
	•	Inch.	Inch.	Inch.		
ALL Y		Nil	Nil	58.28	25th Dec. 1870.	n
(Rampore Beauleah	ditta	Not received	50 51	The state of the s	From 2nd May.
	Pubna	ditto	Nil	56:48	25th Dec. 1870. ditto	From 2nd May, and not received
	Coomercolly	ditto	ditto	51:05		28th Nov. to 4th Dec.
	10-10-10-10-10-10-10-10-10-10-10-10-10-1	ditto	ditto	55.49	ditto	From 16th May.
- 1	Serajgunge	21440	ditto	58:55	25th Dec. 1870.	
2	matema .	37440	ditto	83.20	ditto.	
NORTHBES.	Bograh	Misse.	ditto	95:30	ditto.	
E J	Rengpore		ditto	78'56	ditto.	From 2nd May.
N	Julpigoorie		ditto	90:37	1011 Dec 1070	From 4th July.
	Falacottah		Not received Nil	81:17	25th Dec. 1870	From 27th June.
800	Boda		ditto	111.89	ditto	Ditto G
33.7 E	Littilya	ditto	ditto	397.45	ditto-	
26	Rungbee	Not received	Not received	197'10	30th Nov. 1870.	
889	f Tolograph Umc	ditto	ditto	158.78	15th Nov. 1870. 6th Nov. 1870.	Table 10 to
	Darjeeling Jail		ditto	195 95	23rd Oct. 1870	From 18th July.
	Terai	ditto	ditto	67.87	2010	
ALO D		Nil	Nil	127:33	25th Dec. 1870.	n most tr-
1	Gowalparah	Serve Constituted	Not received	100.49	20th Nov. 1870	From 30th May.
	Dhobree	The second secon	ditto	68.59	18th Dec. 1870.	From 13th June.
230	Toora (Garo Hills)	DECOURSE ON ENGINEER	ditto	121-33	ditto	
i	Shillong	THE RESERVE OF THE PARTY OF THE	ditto	71:14	ditto. 11th Dec. 1870	From 21st June.
88	Jowai		ditto	11474	30th Oct. 1870.	
15	Nowgong		ditto	78°50 86 02	18th Dec. 1870.	
国人	Tezpore	0.00	ditto	80.66	ditto.	P. and Tule
H	Dholebagaun	CONTRACTOR OF THE PROPERTY.	ditto	60 65	ditto	From 1st July.
NORTH-EASTERN.	Burpettah Seebsaugor	0,00	ditto	91.43	ditto.	
Z	Debrooghur	AND SALES AND AND STREET OF STREET	ditto	128:37	ditto.	From 20th June,
	Suddya	Not received	ditto	78:97	4th 1/ec. 1670	Appropriate to the control of
	Samoogoodting	ditto	ditto	58.20	11th Dec. 1870	
			2244	WE-00	4th Dec. 1870	
To at	Dacca { Telegraph Office	ditto	ditto	75·20 61·45	18th Dec. 1870	
1	Date Jail	17 (BASS - 1144-	Nil	78 78	DELL The 1070	[1] [1] [1] [1] [1] [1] [1] [1] [1] [1]
934	Mymensing	Not -senimad	A STATE OF THE STA	71.40	20th Nov. 1870	From 20th June
9.0	I a uminiboso	Nil	ditto	54.60	18th Dec. 1870	From 11th July.
211		ditto	Nil	51.67	11th Dec. 1870	Louis and the second state of the second state
25.1		. Not received			18th Dec. 1870	
R 34		Nil	ditto	107:25	20th Nov. 1870	
-		Not received	Nil	73.07	25th Dec. 1870	
RASTERS		ditto	Not received		18th Dec. 1870	From 11th July, and not received 7th to 13th Nov.
407		2000	Nil	100.97	25th Dec. 1870	
	Noakhally (Tolograph Office	ditto	ditto	93'52	ditto.	
2538	Chittagong Telegraph Offic	ditto	Not received	95.15	18th Dec. 1870	
eths.	Cox's Bazar	Not received	ditto	57.65	9th Oct. 1870	Not received 5th to 11th Dec.
		. Nil	ditto	94.67	18th Dec, 1870	
)						
EASTERN.	Akyab	ditto	Nil	181.47	25th Dec- 1870	

CALCUTTA, The 31st December 1870. HENRY F. BLANFORD,
Meteorological Reporter to the Govt. of Bengal.

Abstract of Observations as received in the Meteorological Reporter's Office, Calcutta,

DURING THE HALF MONTH 1st TO 15th NOVEMBER 1870.

N. B. The Barometric data are reduced for temperatures, and not for height above sea level.

13	THERMOMETER. Solah Radiation. Mean. Monre. Max. Min. Max. Max. Min. Max. Min. Mean. Mean. Mean. Mean. Mean. Mean. Mean. Monre. Mean. Monre. Mean. Mean.		D 10 .0	N 000444400400 100 100 1
N. P.				
RA			odoni n	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10				
ITY.			nod 9	
UMI	Height above sea leve and by Mean.			
H		88 88 88 88 88 88 88 88 88 88 88 88 88		
		685 685 685 685 685 685 685 685 685 685		
	Low	ā l	Day.	14th
1	Hours, Man, Man, Man, Man, Man, Man, Man, Man		nfordA	8 : 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Height above sea level and the			86.0 89.0 89.0 89.0 89.0 89.0 89.0 89.0 89
	Height above sea leve the hours. Mean of min.	10th 10th 1st 6th 1st 1st 1st 1st 1st 1st 1st 1st 1st 1st		
10 7	Height above sea let the hours. Mean of max. Mean of min. Mean of max. Mean. Mean		nod 22	86. 80.38 80.38 7.75 7.75 7.75 7.75 7.75 8.75 8.75 8.7
F21/2			noų 9ľ	88.888.888.888.888.88 88.12.28.13.13.20 88.13.20.20.20.20.20.20.20.20.20.20.20.20.20.
of	Height above sea let a l	88.88.88.89.0 88.89.0 88.89.0 88.89.0 778.		
METE	HUMDITY. Mean of max. Mean. Day.		πόη φ	27.7.7.7.7.9.9 2.7.7.7.7.7.7.9.9 2.7.7.7.9.9.9.9 2.7.7.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.
SRMOI			Mean	77.83 64 + 45 65 65 65 65 65 65 65 65 65 65 65 65 65
THI	HUMDITY. Height above sea let aboute tange. A hours.	73.7 773.0 771.0 771.0 771.0 771.0 66.7 771.0 66.7 771.0 66.7 771.0 66.7 771.0 66.7 771.0 66.7 771.0 66.7 771.0 66.7 771.0 66.7 771.0 66.7 771.0 66.7 771.0 66.7 771.0 7		
		5.0 110.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.		
		88.3.5 6.3.5 88.3.5 89.3 89.3.5 89.5 89.3.5 89.3.5 89.3.5 89.3.5 89.3.5 89.3.5 89.3.5 89.3.5 80.3.5		
	Highest above sea let the bours. Mean of max. Mean. Moan. Moa		Φ	red
			Day.	Not received. "" ##
	Range, Mean. Mean. Mean of max. Mean of max. Mean of min. Mean of min. Mean of min. Mean.			1186 0 1186 0 1186 0 1187 0 1187 0 1188 0
	Solar Radiation. Max. Min. Day \(\theta \) Day. \(\theta \)		Day	S.9th 11th 11th 11th 11th 11th 11th 11th 1
			Mea	
		·0.2	паЯ	111. 111. 110. 110. 110. 110. 110. 110.
		-sino	ч 88	29.859 29.829 29.839 29.914 29.916 29.911 29.911 29.911 29.911 29.911 29.911 29.911 29.911 29.911 29.911 29.911 29.911 29.911 29.911 29.911
ETER.	go a	.aznoi	191	29 816 29 816 29 816 29 826 29 827 29 828 29 828 20
BAROMETER.	MEA	'satiot	101	28 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
B		.arto	q p	1.1767 1.
		'uv	Me	8888 8811 8823 8868 8805 8805 8805 8815 8815 8815 8815 881
level.	uds dac	ght ab	Hei	218 22 29 15 29 16 29 10 29 10 29 170 29 170 29 170 29 170 29 180 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20
	52		-	11111111111111111111
	Menn. A hours.			Port Blair Madrias Vizagapatam Akyab False Point Cuttace Sungor Island Chistagang Chistagang Locat Chebri Locat Locat Maghyr Dariseling Berhampore Parin Manghyr Dariseling Goolparah Selining Goolparah Berhampore Dariseling Berhampore

In the above table the following corrections have been made to the constants hitherto used, and should be applied to the elevations and barometric means given in the tables previously published :--

Elevation of Benares barometer cistern 26274 feet, instead of 260 feet, of Patna "" 170 "" of 131 "" of 100 keep." of Roorkee "" 170 "" of 905 " of Hazarebaugh barometer + -014. "" of 905 " -014. "" of Boorkee "" + -043.

This correction of the Hannesbaugh barometer is not the total correction of the instrument, but the difference between that formerly used and that recently determined.

Calcurra, The 31st December 1870

HENRY F. LANFORD,
Meteorological Reporter to the Goot, of Bengal,

Mean Pressures and Temperatures of the preceding table reduced to sea level, with mean Wind directions.

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	production of the second of the	e	vice and the second	98-
STATIONS.	Mean barometric pressure reduced to sea level.	Mean temperature reduced to sea level.	Proportional prevalence Max=100.	Mean direction
Port Blair Madras Wizagapatam Akyab False Point Inttack Saugor Island Chittarong Calcutta Besore Dacca Sachar Inzareebaugh Berhampore Sarhan Itonghyr Sarjeeling Sowalparah Shillong Benares Goorkee	29:899 29:878 29:913 29:914 29:946 29:951 29:911 29:901 29:895 29:912 29:903 29:944 29:925 29:938 29:944 29:925 29:938 29:930 29:938 29:938 29:938 29:938 29:938 29:938 29:938	81'4 81'4 81'6 78'5 79'9 70'9 70'9 70'8 77'4 77'4 74'9 78'6 73'1 75'0 74'5 77'4 77'0 79'1 70'1	28 24 3 41 35 37 28 29 67 18 33 90 76 51 53 25 74 30 27 3	N 39° E N 88° F N 36° E N 19° E N 19° E N 22° W N 36° E N 14° W N 84° W N 84° W N 85° W N 56° W S 81° W S 13° W S 70° E S 34° W N 55° W

NOTE.

Barometric Pressure.—The pressures in column 2 of the above table for all stations below 500 feet are reduced from those given in column 3 of the table on the previous page by adding the weight of a column of air of the corresponding temperatures given in column 17. For stations of above 500 feet elevation, the reduction is made by Dippe's tables as given in Guyot's "Meteorological and Physical Tables."

Temperature.—The temperatures in column 3 are reduced from those in column 17, on the preceding page, by adding 1° Fahr, for every 350 feet.

Wind Direction.—The mean wind direction and its comparative prevalence are calculated from the whole number of wind observations recorded during the helf menth. The letteries

from the whole number of wind observations recorded during the half-month. The latter is given as a percentage of the whole number of observations. The mean direction is calculated in the usual way by Lambert's formula.

The above being all comparable, afford the data for constructing a meteorological chart for the half-month which shall shew the isobaric and isothermal lines, and the resultant wind directions, which last may be represented by arrows of varying length proportioned to the prevalence of the wind. To these may be added the rainfall from the previous tables.

HENRY F. BLANFORD,

Meteorological Reporter to the Government of Bengal.

The 31st December 1870.

Ho. 2



of 1871

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, JANUARY 11, 1871.

OFFICIAL PAPERS.

Non-Subscribers to the Gazette may receive the Supplement, separately, on payment of six Rupees per annum if delivered in Calcutta, or twelve Rupees if sent by Post.

Meteorological Telegraphic Report for the period 1st to 7th January 1871.

			Barometer	Barometer	Риввио	METER.	Humi-	Wind		•	6	Weathe
OTATIONS	Date.	Hour.	reduced to	reduced to sea-level.	Dry.	Wet.	dity Sat.	Direction.	Velocity,	Rain.	Clouds.	initials
	Jan.			-			1		-		about the said	
ſ	lst	10	29-998	30.017	72.8	64*5	63	W by N			0	
	2nd	16	29·844 30·018	29·862 30·036	80°4 75°5	65.5	56	W by N N W	***	77.		60
	Janu.	1 16	29:896	20.914	80.3	69.0	53	NNW			*****	. 1 6
	3rd	16	80·072 29·945	29:964	66.0 72.0	58.0	49 37	N N W		***	6	8
- Valorita	4th	10	29.945 30.104	30:123	63:9	55*ถึ	57	N by E		- ***	and a	8
2	5th	16	29:959 30:029	29:978 30:048	69.0	57·0 55·2	43 61	NW		***		6
3	ELOS,	16	29.897	29.916	70.0	59.0	48	WNW			c	6
1	6th	10	29-889	29:908	61.0 72.5	62.6	67 56	WNW	***		G	
-	7th	10	30:055 29:931	30 074 29 950	67·0 74·5	62.0 64.0	74 53	N E N W		•	C	9.
1	1st	10 16	30.008	30.014 29.868	75 80	69 72	72	N N W S S W	4.9*		C	6
	2nd	10	29:860	30.028	76	70	66 72	N	5.0#	***	C, CK	b, m
9		16	29.909	29 915	71 69	60 58	49	NNE	13.9*			b, m
3	3rd	16	29:946	29.952	75	62	41	NE	16.6*			8
-	4th	10	30 108	29:976	67 71	57 60	50	NNE	9.20	***		b, m
SAUGOR ISLAND	5th	10	29:970 30:048	30 054	66	56	49	N	10.5*	***		6
940	6th	16	29-906	30:038	79 68	63	74	N N	8.7*	***	c	b, m
	orn	16	80.033	20.010	74	63	51	N	10.0*	***	C	b, m
1	7th	16	30.038 29.928	29 934	70	66	70 53	NEN	97*	***	G .	b, 100
1	1st	10	29:897	30.011	72	67	75	ENE	3-9*	*	· ····· ·	8, m
1	2nd	16	29.777 29.922	29:889	78	68 68	57 68	W E	5·7* 3·1*	***	C	b, m
	2 Do	16	29 782	29.894	81	* 69	51	N W	6:5*	***		8, 116
0 10	3rd	16	29:856 29:856	30 055 29 9 69	75 77	64	51 45	WNW	8.38	***		b, m
7	4th	10	59.988	30.103	67	58	55	N	5'0*		*	b, m
CHITTAGONG.	5th	10	29-839	29 952	74 66	61 57	43 54	N W N	5.9*	***		b, m
3		16	29 793	29 907	72	60	45	W	7 6*		******	b, m
i	6th	10	29.903	29.921	66 75	61 65	73 55	N E W	5·7* 6·1*	***	CB	b, m
1	7th	10	29°808 29°9°15 29°830	30·019 29·943	70	63 64	65 48	wsw	6.8*	***		b, m
1	1st	10	29:951	29:931	83	74	63	N	13*			be
-1	2nd	16	29:860 30:111	29:890 30:141	81	73 73	66	N by W	12*	***		b c
		16 -	29:910	29.940	81	72	63	N	9*	***	******	160
ui l	3rd	16	30:046	29:947	84	74 72	60 59	N by W N N E	11*	•••		b c.
MADEA	4th	10	29 917 30 035	30 065	77	72	77	N W by N	5*			60
(3	5th	16	29:897 29:968	29:927	82 79	73 73	63	N W by N	7*			80
	1	16	29 969	29.899	79	71	65	ESE	9.	***	.*****	be
	6th	16	29 959 29 854	29:989	80 82	74 72	74 59	N N W S W by W	13*		******	60
į	7th	10 16	29-986 29-901	30.016 29.931	82 80	71 70	55 58	N N	11*		******	b c
ŗ	1st	10	29 962	30 046	71 80	66	75	NW			С	Fair.
1	2nd	16	29.817 29.982	29-900 30-066	73	68	76	N N W		***	******	Fair.
i		16	29.843	29 926	81 76	70	55	E		- ***	******	Fair.
2	3rd	16	29.876	30-090 29-959	79	69	60 58	NNE				Fair.
COTTACE	4th	10 16	30:045	30·129 29 983	71 74	59 62	44	N E			C, CK	Fair.
000	. 5th	10	29 899	30:080	67	57	50	NE		***	C	b
		16 10	29'852	29-936 30-080	73 68	61 57	46	ENE		***	C, CK	Fair.
8	6th	16	29:995 29:885	29.969	71	60	49	NE			C, CK	6
-	7th	10 16	29:889 29:889	30·093 29·973	68 74	61	55 43	· NE	-		C, CK	8
1	1st	10 16	29°952 29'826	29:968 29:841	72 78	65	66	N N W	2 2		C	8 8
1	2nd	10	29 981	29 997	73	68	76	8 by W	2	100	C. CS	8
1	3rd	16	20:863	29 876 30 013	79	71 47	65	N W S by W	2 2		C, C8	8
, B.		16	29.878	29/888	81+	80	. 95	NW	3	•••	C	8
AKTAB.	4th	10	30 007 29 861	29.876	76	64 75	70 95	N E N W	2 3	***	CS	8
Te	5th	10	20.945	29.961	67	61	69	N N W	1 1	-44	C, CS	16
1	6th	10.	29:634	29 849 29 953	75 70	67 64	63 70	NE	9 2	***	C, CS C, CS	'b
-	7th	16	29 856	29°871 30°006	78 63	70	65	ENE	1 2	***	C . CS	b b
100	4 CII	16	29.876	29-891	78	57 70	65	WSW	i	< <u>11</u>	c, us	b

^{*} Velocity of wind in miles per hour.

Weekly Raport of Rainfall compiled at the Meteorological Reporter's Office.

•	Stati	ons		Rainfull from 19th to 25th Dec. 1870.	Rainfall from 26th to 31st Dec. 1870.		N FROM 1ST NUARY 1870.	IMMARKS.
	Otak	Ous.		Rainfal 19th Dec.	Rainfa 26th Dec. J	Rain.	Up to date.	•
				Inch.	Inch.	Inch.	T.	
Poor	ee	****		Nil	Nil	53:34	31st Dec. 1870	
False	Point -		0000		Not received	64:05	25th Dec. 1876	
Cutt	ack {Teles	grapu	Omce	36.6	Nil Not received	49.97	31st Dec. 1870 25th Dec. 1870	
Jagin	pore				9.111	Nil	31st Dec. 1870	From 5th December, and not r
W.m.	lraparah			2777	ditto	ditto	ditto	From 5th Dec.
	tsingpore	***	***		ditto	ditto	ditto	Ditto
	oulpore	***	**	ditto	ditto	65.83	ditto.	Not received 19th to 25th Dec.
Balas	ldruck	****	***	Not received Nil	ditto	52.63 41.11	ditto #	From 16th June.
Kho	ordah •	•	***	Not received	Not received	45.06	27th Nov. 187	
Midn	apore	***		Nil	Nil Not reserve	46.61	9th Oct. 1870	
Tum		***		Not received Nil	Not received ditto	1.60 8.76	25th Dec. 1870	
	oorah	1.5	***	ditto	Nil	42.26	31st Dec 1870	
Puru	bassa lia		***	ditto	ditto	53·26 48·77	ditto.	
	ndpore	***		Not received	Not received	50.03	30th Oct. 1870	
Palar Burd		***	***	Nil	Nil	52-14	31st Dec. 1870 ditto.	From 6th June.
Cutw		***	***	ditto	ditto	40°54 97°37	ditto	From 4th July.
Culn		***	***	Not received		34.19	ditto	Ditto, and not receive
Bood	-Bood	·	***	120		26-84	ditto	From 4th July.
Rane	egunge			Nil ditto	ditto	54:43	ditto.	
Soore		***	***	ditto	ditto	60:19	ditto.	
Burh			***	Not received	ditto ,	47.85	ditto. 4th Dec, 1870	
	reebaugh		***	ditto	Not received ditto	59:17	18th Dec. 1870	F 0541 I-1-
Rane	amba bee	***	***	ditto	ditto	20:68	4th Dec. 1870 25th Dec. 1870	
Sasse		***	***	74.11	ditto	56.64 57.72	ditto	From 28th March.
	or Island	***	***	ditto	Nil	80.80	31st Dec. 1870	
Calcu		***		Not received Nil	Not received Nil	60:69	20th Nov. 1870 31st Dec. 1870	(I
How		***		Not received	ditto	54.48	ditto	Not received 19th to 25th Dec.
Barri	ckpore	***	***	Nil	ditto	52:38	ditto	From 16th May.
	Dum	***	***	ditto	ditto	21.86	ditto	Ditto.
Baras		***		ditto	ditto	44'55	ditto	Dillio.
Bosee	rhaut	***	***	ditto	ditto	39.66 37.93	ditto	Ditto. *
Diam	ond Harbo			ditto	ditto	66.95	ditto	Ditto.
Barri Hoog		***		ditto	ditto	66.51	25th Dec. 1870	Ditto.
Jesso		***		ditto	Not received Nil	62.56	31st Dec. 1870	
Kishi	naghur	***	***	Not received	ditto	42.86	ditto	From 17th Jan., and not received
Rana	ghat	***	***	Nil	ditto	46.62	ditto	From 7th February.
Bong Mehn		***	***	ditto	ditto	49.22	ditto	From 10th January. From 7th February.
	iangah	***	***	Not received	Not received	42.90	6th Nov. 1870	Thirt
Koosh		***	***	Nil	Nil	55.11	31st Dec. 1870	111-12
	mpore edpore	***		ditto	ditto	56.69 80.86	ditto. 25th Dec. 1870	
	at Khan	5	- "	ditto	Not received Nil	50.58	31st Dec. 1870	
Burri				ditto	Not received	69·80 35·37	25th Dec. 1870 31st Dec. 1870	
				ditto	Nil	00 07		28th Nov. to 11th Dec.
Mada	ripore	***		ditto	ditto	83.11	ditto	From 11th July, and not receive 5th to 18th Dec.
	gulpore	***	***	ditto	ditto	40:34	ditto.	
	eypoorah	***	***	ditto	ditto	58'40	ditto 30th Oct. 1870	From 2nd May. From 25th April.
Bank		***	***	Not received Nil	Not received Nil	46.92 70.72	31st Dec. 1870	
Jamoo	oie	***		ditto	Not received	63.31	25th Dec. 1870	From 25th April.
Begoo		***	***	Not received	ditto	48:27	27th Nov. 1870 31st Dec. 1870	From 16th May. From 26th September.
Gya		***		Nil ditto	Nil ditto	9:26	ditto.	
Sherg		***	***	Not received	Not received	39.81	27th Nov. 1870	From 13th June. From 20th June.
Nowa Behar				Nil ditto	Not received	42.18	31st Dec. 1870 25th Dec. 1870	From 21st March, and not received 12th to 18th Dec.
Patna		***		ditto	Nil	35.70	31st Dec. 1870	
Arung		***	***	Not received	Not received	38'97 51'85	25th Sept. 1870 18th Dec. 1870	From 11th July. From 25th September.
Barh			***	ditto	ditto	48 08 .	25th Dec. 1870	From 16th May.
Arrah		***	**	ditto	Nil	47:27	31st Dec. 1870. 11th Dec. 1870.	
Buxar		***		Not received Nil	Not received Nil	48:30	31st Dec. 1870.	
Sewar			•	ditto	ditto	55.16	ditto	From 2nd May, and not received 12th to 18th Dec.
Chum			***	ditto	Nil Not received	45:18	ditto. 25th Dec. 1870	
Mozuf	Terpere		444	ditto	Not received Nil	78:10	31st Dec. 1870	From 1st March, and not received
Durbh	DEATH OF THE REAL PROPERTY.			ditto	ditto	Nil	ditto	5th to 11th Dec. From 31st Oct.
Sectar				Not received	ditto	ditto	ditto	From 14th Nov., and not received 19th to 25th Dec.
Tajyor	ore			ditto	Not received	ditto	20th Nov. 1870 31st Dec. 1870.	From 1st Nov.
		444	1900	Nil	Nil	44.57	318t Dec. 1870.	riom rien reo.

16 (SUPPLEMENT TO THE CALCUTTA GAZETTE, JANUARY 11, 1871.

	ore.	Stations.		Rajnfall from 19th to 25th Dec. 1870.	Bainfull from 26th to 31st Dec. 1870.	R	JAN	FROM 1s SUARY 1870	Γ
	Cracorr.			Rainf. 19th Dec.	Rainfa 26th Dec.	Rai	in.	Up to de	REMARKS.
					主从 而作用现在的		200	No. of the least o	
				Inch.	Inch.	Inc	h.		
	1				W Birth Edit				
	Rampore				Nil	58'2	8	31st Dece 1	1870
	Pubna	The state of the s	*	· mine	Not receive			25th Dec. 1	1870 From 2nd May
	Coomercol	ly	***	- CHILLED	Not receiv	56.4	8	31st Dec. 1	1870
	1 Serajgung	0	***		ditto	ed 51 0		25th Dec. 1 ditto	
	Maldah Bograh		***		Nil	53 58		31st Dec. 1	From 16th May.
Nontenan	Dinagepor		***		ditto	83.50	0	ditto.	
	Rungpore			ditto	ditto	95:30		ditto.	
G C	Julpigoorie		***	ditto	ditto	78.56		ditto.	
Z		1000	* ***	ditto	ditto	90.37		ditto	From 2nd May.
	Boda Titalya	***	200	ditto	ditto	81 17	0.00	ditto	From 4th July.
NEW Y	1 Buxa		***	ditto	Not receive	d 111.87	- 1	oth Dec. 18	870 Dieto
	Rungbee			Not receive	Nil	397.45	8	list Dec. 16	870.
	Darieeling	{ Telegraph Jail	Office	ditto	d Not receive	d 197·10 158·78		5th Nov. 18	870.
	Terai	¿ Jail	***	ditto	ditto	125.95		6th Nov. 18	
	Clerai	***	•••	ditto	ditto	67.87		3rd Oct. 18	From 18th July.
500	[Gowalparah		***	Nil			200		
	Dhobree		***	Not received	Not received	127:33	3	1st Dec. 18	
Desc:	Gownatty Toom (C-	Trus	- ***	Nil	ditto	68:59	2	0th Nov. 18 5th Dec. 18	From 30th May.
N.	Toora (Gard Shillong	OF PURINCE STATE	***	ditto	ditto	121-33		ditto	From 13th June.
NORTH-EASTERN.	Jowai	100		ditto -	ditto	71.14		ditto.	
48	HEERALES!	Z. Thomas and	artise.	ditto	ditto	114.74		ditto	From 21st June, and not receive
3	Nowgong		***	Not received	ditto	78:50	91	oth Oct. 18	12th to 18th Dec
-	Dholebagau	15.000	- ***	Nil	ditto	86.02	25	5th Dec. 18	70.
0	Burpettah			ditto	ditto	80.66	79 6.5	ditto.	
	Seebsaugor			Not received Nil		60 65	18	3th Dec. 18	70 From 1st July.
	Debrooghur	444	***	ditto	ditto	91.43	25	ditto. 182	70.
	Suddya		***	Not received	ditto	79.05	118	th Dec 18	70 From 20th June, and not receive
10	Samoogoodti	ne	24310	TOP MAY TAX TO			1	TO LOS	5th to 11th Dec.
				Nil	ditto	58.20	25	th Dec. 187	70.
SEC.	Dacca { Tele	graph Office		Not received	ditto	75.20	1	th Dec. 187	
8301	Mymensing		***	Nil	Nil	61:45	31	st Dec. 187	
0000	Jamalpore		Art.	ditto	ditto	78.73	100	ditto.	
201	Atteah	STALL SAME		Not received Nil	Not received	71:40	20	th Nov. 187	0 From 20th June.
	Kishorgunge			ditto	Nil	54.60 51.67	318	se Dec. 187	0 From 11th July
H	Sylhet	**	1	Not received	ditto	161.74	100		From 1st July.
BASTER.	Aenakhall Hy	lakande	***	Nil	ditto	107:25		ditto.	Not received 12th to 25th Dec.
31	Tipperah *	MEDICAL PROPERTY OF		Not received Nil	Not received	100.77		h Nov. 1870	
MI	Brahmanbari	ih		ditto	Nil ditto	78.07	31s	t Dec. 1870	0.
25.0	Noakhally	Falson 1 co		ditto	THE RESERVE OF THE PARTY OF THE	100.97		ditto	From 11th July.
10.4	UNION TO THE PARTY OF THE PARTY	Felegraph O Iail	900000	ditto	ditto	93.52	1	ditto.	
0.00	Cox's Bazar		N	ditto ot received	ditto	.95.15	100	ditto.	
- (Rangamatea E	HI		ditto	Not received ditto	57.65 94.67	9t	h Oct. 1870	From 29th July.
63			W 5 5			04 07	180	Dec. 1870	Not received 5th to 11th Dec.
EN				1	Sept The State				
A P	Akyab			Nil	N7:1		SAV		
EASTERS.		To back to	""	NII -	Nil 1	81.47	31st	Dec. 1870	
"]			Harrie La						

CALCUTTA,
The 7th January 1871.

HENRY F. BLANFORD,
Meteorological Reporter to the Govt. of Bengal.

GOVERNMENT OF BENGAL,

PUBLIC WORKS DEPARTMENT,

Irrigation Operations of Lower Bengal from January to March 1869-70.

		W	Water supplied during 1820-71.	1820.71.	еки	APPECKIMATE ARRA IRRIGATED DURING 1870-71.	ARRA IRB 1870-71,	IGATED	for all or all of cur-	.e bua	Ħ	RAIN-PALL.	.4	NA	TOATIO	NAVIGATION RETURN	EN.	CHEEF 3	CHEEF IRRIGATION.	-
Grebs.	Canal,	Full supply depth.	Hatimated full dis- charge in cubic feet per second,	A verage depth the different the different throng different throughout the different through through the different through the different throu	Average discharge in cubic feet per second through-out the month.	District,	Area netnally re- celving water du- ring month in neres.	Of Column 8 arear re- ceiving water for the first time du- ring current year.	Total of Column 8A previous months rent year,	Total of Columns 8A	Inches during the month,	Inches up to date during the year	Average of ten pre- vious years for the same period,	.offarT to exuteZ.	Number of Bonts.	Топпан.	Approximate value of goods.	Per Column 8.	Per Column 8A.	BEMARKS,
1	61	00	*	10	9	7	80	8A.	6		11	13	13	14	15	16	11	18	19	20
Orissa	Kendrapara	7	1,260	4.75	684-712	Çattaek	282	218	6,462	6,680	1.05	48-78	:	Local Through	139	1 121 19	3 4,60,239	Cotton 553	Cotton 208	Accidental irrigation not as
	Taldunda		1	1	NII.	1							7			_		Miscellane.	6- Miscellane-	THORNES TO THE PARTY OF THE PAR
	High Level	00	675	4.0	235	Cuttack	1	1	2,897	2,898	1.02	48-78	:			63 159	2,385	Cotton	1 Cotton 1	Recent 145 o. 6. nas sacond
8. W. Circle	Midnapore	80	875	No obse rvations	rvations	(Midnapore	300	300	13,681	12,981	06-	-	-	Govt. Stores		0			ē	_
	Panelkoorah	9	240	Dit to	to	(Howrsh	:	ŧ	1,320	1,320	1.43	57-61	:	Govt, Stores	: 82	125		Moog	100 Moog 100	
Orissa	Kendrapara	1	1,260	4.70	672-993	Cuttack	. 904	144	6,680	6,824	None	48-78	1	Local Through	38	1,793	33,097 3 1,18,068	Cotton Rice Miscell	810 Cotton 114 30 Rice 14 ane- Miscellane-	Same remarks as above.
	Taldunds	1-	1,390	6.3	156-61	Ditto	:	:	:	:	ï	:	:	Local				ous	15 cus 16	
	High Level	00	679	4-99	324	Ditto	10	7	2,898	2,905	:	48-78	:	Local Stores		47 S6	7 292 6 2,116 0 12,430	Cotton	10 Cotton 7	Escape 145 c. ft. per second.
S. W. Cirele	Midnapore	00	875	No observations	reations	Midnapore	70	:	13,681	12,981	2	:	-		-	65	60	Rica	9	
	Panchkoorah,	9	240	Dit to	to	Howrah	1	i	1,320	1,320	ż	19-29	<u></u>	Govt, Stores	90			Noog	122	T.
Orissa	-	1.	1,280	4-75		684-712 Cuttack	1,509	п	6,824	6,835	-30	49.68	i	Local	35.2	3,176	6 3,70,730	Cotn. 1,8 Rice Miscella	75 Cotton 5 60 Rice 6 ne. Missellane-	Same remarks as above.
	Taldunda	b. (1,300	-	156-61		:	:	:	1	1	:	:	Local Gort, Stores		18 146 74 641	17.4			
	High Level	00		90	315			69	2,905	2,907	06.	49-68	:	Local Govt, Stores		_		Cotton	12 Cotton 2	Escape 180 c. ft. per second.
S. W. Circle	Midnspore	œ œ	840	No observations Dit to	rvations	Midnapore	30	-0	12,981	12,986	None None	57-61	!	Local Govt. Stores		96 681 13 216	1,87,645	Rice .	20 Rece 5	

T. M. KIRKWOOD, c. s.,

Canal Revenue Supdt., Bengal.

GOVERNMENT OF BENGAL,

PUBLIC WORKS DEPARTMENT, Irrigation Branch.

Irrigation Operations of Lower Bengal from April to August 1870-71.

,	REMARES.	00	, ,			Escape 75 c. ft. per second.						Canal closed from 15th.		1	70 c. ft. per second escane.	Canal closed in June for repairs.	Ditto ditto	Canal closed,		a a
HGATION.	er Column 8A.	19		Cotton 15 Rice 83	e- Miscellane-		Rice 35		Rice 32	Rice 141	Miscellane.	240					1 6	1 .	0	Moe,
CHIEF ISETGATION.	Per Column 8.	18		Rice 83	8 88		Rice 85		Rice 82 Cotton 15	Rice 284 Cotton 1830		1	Rice 25		1		Rice 11		Diam	
	Approximate value of goods.	17	-	508 508 508 508 508 608		2,478	17,459		88 i	29,361		2,841	19,53,709	Cantine Contract	160		3,05,339		5x 0x9	84,270
NAVIGATION RETURN.	Tonnage.	16	10	355		116	216		21.23	1,500	-	523	8,306 1		20	174	884		9,970 11	1,645
ATTON B	Number of Boats.	15	0	2000		22	48		200	43	6	2	1,154		9	83	119	ing.	_	67
NAVIG	offiarT to exutaV.	14	Local	Govt. Stores Local Through		Govt. Stores	Local Govt, Stores		Govt, Stores	Local Through	Town		Local Govt, Stores		Local	Local	hrough		oes!	Gort, Stores
	Average of ten pre- vious years for the same period,	13		i			~	1	:	1		-		1	1	-			~	-
RAIN-PAIL.	Inches up to date during the year 1870-71,	12	1-23	1.23	1.99	9.	8 60	8-08	9	8.08	80.68	10.75	7		10.20	10-50	10.20	-	13.70	14.90
R	Inches during the month,	п	1-23	1.23	1-93	.30	29.62	1.07	3	1.82	1.85	8.45	1.40		743	7-42	27-43		8.00	10-46
,6 baa .	As anmuloD to IsroT	10	15	1881		100		4		2,151	-	30%			17	2,151	0 :	10 :00	00000	<u>-</u>
lia vol . -uo lo	Total of Column 8A previous months rent year.	0	71	*1	- 7			15		1981	;	35			7	2,151	6		-	-
GATED	Of Column's area re- cerving water for the first time du- ring current year.	8.4	15	931		382	:	65		1,320		1	,			1	Мопе	10.558		-
1870-71,	Area notually re- ceiving water du- ring month in acrea.	œ	15	931		128	i	47		2,151	1	52	-			п		10.565	200	i
APPROXIMATE AREA INDIGATED DURING 1870-71,	District.	7	Cuttack	Ditto	Ditto	(Midnapore	Howrah	Cuttack		Ditto		(Midnapore	Howrah	Cuttack		Ditto	Dilto	Midnspore	-	Howrah
IIX0	Avorage discharge in cubic fleet per second through-	9	31.4	096-537	19-921		20	198	000000	984.270	19-921	-		150	-	628-551	ı	123	-) 8
5.71.	Average depth the month,	10	4.83	08.5	6.3	No obse rvations	Dit	4.6	*	470	6.3	No obse rrations	Ditto	e		4.50	:	4.30		2.00
Wares supplied during 1870-71.	Estimated full dis- charge in cubic feet per second,	4	67.9	1,260	1,300	875	250	675	1 000	1,200	1,300	875 N	240	675		1,280	I,	875		240
¥	Full supply depth.	8	00	4	2	00	9	80			4	00	9	00		4	4	00	0	9
	Conn.	61	High Level	Kendrapara	Taldunds	Midnapore	Panchkoorah	High Level (25 days)	Kendrapara	··· follow mit	Taldundah	Midnspore	Panchkoorah	High Level (12 days)	Kendrapara (7	ditto) c	Taldunds	Midnapore (open 29 days)	Panchko ora h	(open 7 days)
Y	Circle	1	Corissa	*21	ady	o. M. Circio		Corisma		MEAT.		8. W. Cirele	1	Orissa			Ota	S. W. Circle		

Direct Control of the Control			THE PERSON NAMED IN	PHONE IN		-			-	
Estapo 127 c. ft. per second. Rain-fall at Kendoopstra in July 10-44. Estapo 120 c. ft. per second.	Much of this previoualy irrigated for cotton crop. Escape 75 c. ft. per second.		No escape over tail,		Escape 65 c. ft. per second.	afterwards.	Escape 150 c. ft. for 15ş days.			
20%			1		i	1	1			
Rice	• 1		Bice		Aice		Rice	Rice	Marie	
lice 333 Siece 1273 Cotton 5 Miscella.	-		1		-					
Rice Cotta			Rica	9	Rica		Rice	Rice		
3,206 Rice 10,000 • 29,133 Rice 3,29,104 Cott	1,012		12,925 10,18,554 Rico 910 11,729	1 905	8,330	1,23,426	13,215	11,808 4,54,539 Rice	30	
138 6.6 1,471 48	109		910	188	180		2,706	1,808	22	
80.0254	128		2,214	28	8 15		130	1,932 1	-	
Local Gort, Stores Local Gort, Stores	Local Gort, Stores		Local Govt, Stores	Local	Gort, Stores	Govt. Stores	done, blorgs	Local 1	GOTE, Stores	TO NOTE
25-79	25-79	-	1718. 	40-57	40-57	40.67			31-24 (2 yrs.)	
17-83	17-83	19-05	69-92	27.84	27-84	27-84	30-85		39-65	
7.33	7.33	5.39	10-99	* 10.01	10-01	10-01	11-80		13-76	
380	i	26,604	808	23,035	40,356	8,000	28,784	di.	900	-
2,161	• 1	10,593	f	380	2,356	1	04	7.1	208	
333	None	16,011	208	21,655	38,000	8,000	2,180 2		292	
333		26,604	508	22,035	40,000	8,000	3,741		009	1
11.	ī	-	-1	1	i	1			1.	3
Cuttack Ditto	Diltto	404.34 Midnapore	Howrah	Cuttack	Ditto	Ditto	Midnapore		Ноwтаћ	
275	pene	04:34	61-91 for the days irrigat- ing.)	675	664'413 Ditto	156-61 I	171-8		42-44 B	
£ 650 €	Canal opened on 21st	5.35	417 (for the (fings) irrigat, in	io	99 99-5	7.25 13		days' irriga- tion.)	during 14 days, irriga-	600
1,280	1,300	873	98 8) riu	675	1,260	1,300	875 (dn	T. I.	240 (du 14 c	
a	8	60	9	œ	7 1,			100		100
High Level Kendrapsers	Taldunds	oorah	open)	High Level	Kendrapara ?	Taldundah 8	Midnapore 8		Panchkoorah 6	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW
Coriess	S. W. Circle			Oriena 11			S. W. Circle]		,	

Cuttack fown.

Subspore... 10-50

Subspore... 20-33

Softe ... 7-45

Annorm 4-40

Canal Revenue Supdt., Bengal.

T. M. KIRKWOOD, c. S.,

GOVERNMENT OF BENGAL,

PUBLIC WORKS DEPARTMENT,

Irrigation Branch.

Irrigation operations of Lower Bengal for the month of September 1870-71.

				et per			6	
20		Recore,		Becape 123 cubic feet second.		Six days irrigating.	One day irrigating.	
GATTON.	19	Per column 8A.	Rice.			1-	``.	
CRIEF IRRIGATION.	18	Per column 8.	Bice	10			•	
gr.	17	to sular estamizerqdA , sboog	2,083	2,00,800	450	8,47,114	200	1,19,227
STORK.	10	Tonnage.	167	3,971	169,2	13,280	0	19,619\\\ 11,19,227
NAVIGATION RETURN.	15	Number of Boats.	3 0	378	es 8	2,286	61	2,815
NAVIE	14	Sature of Treffic.	Losal Government Stores	Merch sn dire Government Stores	Merchan- dize Government Stores	Local	Government Stores	Total
	13	Average of ten previous years for the same period.	51-31	51-31	61-31	1		
RAIN-PAIL.	13	Inches up to date during the year 1870-71.	36-64	38-64	38-64	39-85	29.65	
R. BA	11	Inches during the mouth.	08-8	8-80	8.80	0.6	9.6	
10		Total of columns 8A, and 8	22,035	68,356	18,000	28,845	878	138,114
6	all pro rear.	Total of column 8A, for targent you are not a current	22,035	40,358	8,000	28,794	. 300	Total 138,114
TOATTED	8.4	Of column 8 area receiv- ing water for first time during current year,		28,000	10,000	61	878	
AREA 1879-71	100	Area socially receiving mater in agree.	2,355	68,356	15,000	2,339	900	
APPROXIMATE AREA IRE DURING 1870-71.	4	District,	Cuttack	Ditto	Ditto	Midna.	Howrah	
WATER SUPPLIED DURING A 1870-71,	9	Average discharge in eu- bie feet per second throughout the month.	314	696-537	M.	402-25	00-09	
	10	Average depth through- out the mouth.	8.48	4.80	720	07-9	8-70	
	*	Estimated full discharge in orbit feet per second.	603	1,260	1,300	873	240	
	80	Full supply of depth.	œ	2	6	a	۳	
		Canal,	High Level	Kendraparah	Taldundah	Midnapore	Panchkoorah	
		Cirole,		Ories		SW. Circle	``	

T. M. KIRKWOOD, c. s.,

Canal Bevenue Supdl., Bengal.

Results of the Meteorological Observations taken at the Surveyor-General's Office, Calcutta, from 1st to 7th January 1871.

Month.	10	oter.	THERMOMETER.					dew-	humidity.	WIND.				•
	Date.	Mean reduced barometer	Highest reading.	Lowest reading.	Max. solar radia-	Mean dry bulb.	Mean wet bulb,	Computed mean point.	Mean degree of hum	Prevailing direction.	Mas. pressure,	Daily velocity.	Rain.	GENERAL REMARKS
		Inches.		0	0	0	0	0		16	Th	Miles.	In.	
Jap	1st	29.907	81.8	63.2	13512	71.2	65.0	59.8	0.68	W by N		100 6		Clear and cirri Slightly foggy a
•	2nd	934	81-2	66.4	135.0	729	66.3	61:0	-68	W S W &	1	143-6		midnight and A.M. and 8 P.M. Clear, Slightly fogg from 7 to 10 P.M.
	3rd	1 .086	78.7	60.2	1298	67.1	59.0	52.5	62	NW, N&N NW		185.0		Clear and cumul Slightly forg
	•4th	80.000	70.0	56.0	129.5	62-3	55.8	50:1	-66	NNW&	0.3	136-0		from 7 to 11 P.M. Clear. Feggy a midnight & A.M. and from 8 to 1
	5th	29.969	70.8	54 Q	126.5	61.7	56.0	60-0	-70	N W & W		1594		P.M. Clear. Foggy a midnight and A.M. and from 8 to
	6th	954	78-5	56.5	128.0	63-9	68.6	53.8	.71	WNW&N		143.6	٠.,	Olear& cirris Slightly foggy at midnight
	7th	965	75.2	58 0	128.8	65.7	60.7	56.7	74	N by E & N W		126-9		Clear, cirri, and cirro cumuli. Foggy from 9 to 11 p.m.

The mean barometer, as likewise the dry and wet bulb thermometer means, are derived from the twenty-four hourly observations made during the day.

The dew-point is computed with the Greenwich constants.—The figures in column 10 represent the humidity of the air, the complete saturation of which being taken at unity.—The receiver of the lower rain gauge is $\frac{1}{2}$ feet, and that of the anemometer 70 feet 10 inches, above the level of the ground.—The velocity of wind, as indicated by Robinson's anemometer, is registered from noon to noon.

The extreme variation of temperature during the past seven days		27.6
The max, temperature during the past seven days		81.6
The max, temperature during the corresponding period of the past year	***	82.5
The mean humidity during the past seven days		0.68
The mean humidity during the corresponding period of the past year		0.63
	. 70	Inches.
e total fall of rain from 1st to 7th by lower rain gange by anemometer gauge	****	Nil
by anemometer gauge		Nil
Ditto ditto, average of 17 previous years		Nil
Ditto between the 1st January and the 7th January	***	Nil
Ditto ditto ditto, average of 17 years		Nil

GOPEENAUTH SEN, In charge of the Observatory.

The 9th January 1871.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, JANUARY 18, 1871.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the Supplement, separately, on payment of six Rupees per annum if delivered in Calcutta, or twelve Rupees if sent by Post.

Proceedings of the Council of the Lieutenant-Governor of Bengal for the purpose of making Laws and Regulations.

Saturday, the 7th January 1871.

Bresent:

HIS HONOR THE LIEUTENANT-GOVERNOR OF BENGAL, presiding.

T. H. COWIE, Esq., Advocate-General,
THE HON'BLE ASHLEY EDEN,
A. MONEY, Esq., C.B.,
A. R. THOMPSON, Esq.,
V. H. SCHALCH, Esq.,
MOULTY ABDOOL LUTEEF KHAN BAHADOOR,

F. F. WYMAN, Esq., BABGO JOTEENDRO MOHUN TAGORE, T. H. WORDIE, Esq.,

AND

BABOO DIGUMBER MITTER.

REGULATION OF LODGING-HOUSES AT POOREE.

THE HON'BLE ASHLEY EDEN moved for leave to bring in a Bill for the better regulation of lodging-houses at Pooree. He said that it would be in the recollection of some of the members of the Council that a somewhat similar measure was introduced in 1867 and was subsequently withdrawn. He was not in the Council at the time the Bill was withdrawn, and he had no distinct knowledge of the causes which led to the abandonment of the Bill. As far as he could gather from the proceedings of the Council there were two grounds for the course adopted: one was in consequence of its having been stated by the hon'ble member on his left (Mr. Schalch), as the result of his experience, that the lodging-houses at Pooree were not in such a state as to require a special law for their regulation. The hon'ble member, he observed, had said—

"He found that pilgrims were in the habit of putting up in well-known places, which seemed to be in a very fair condition, and were not under ordinary circumstances overcrowded; but when festivals occurred, not only those lodging houses, but every house in the town, afforded accommodation for one or more persons, according to their means, and the great mass that flocked in; and the temples and other buildings were also crowded. The general opinion at Pooree seemed to be that there was no necessity for an Act of this nature to go into the details of the management of a lodging house, but all that was necessary was to give magistrates power to prevent overcrowding, and the powers now possessed by the magistrate would be sufficient to provide for all measures necessary for purposes of conservancy."

The second reason was that urged by the Advocate-General, who was then in charge of the Bill; that the Bill, as originally introduced, had been so emasculated by the select committee that it was considered to be of no use, and there was very little in it which was not already contained in the provisions of the District Municipal Improvement Act: and the Bill was therefore withdrawn on the ground that it was just as easy to extend the provisions of that Act to the town of Pooree. Both of those grounds were, however, found to be untenable, for it was found not possible to extend the provisions of the Municipal Act to Pooree; and even if extended, it would not have the effect that was desired. Moreoever, the description of the state of the lodging-houses at Pooree given by the hon'ble member was found not to be perfectly correct, as was clearly shewn by the descriptions given in the special reports made by Drs. Mouat, Smith, and Stewart. The reports were not very pleasant reading; but for the

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information of the Council, and as there clearly was some misapprehension on the subject, he Dr. Smith had spoken in his diary of Bullia G. oo's house being would read a few extracts. the best lodging-house in Pooree. He would now read what Dr. Stewart noticed in his description of the same house in his diary kept during the late cholera visitation at Pooree :-

"On the 15th inspected Bullia Gooroo's lodging-house (which was spoken of by Dr. Smith as the model lodging-house), as also an adjacent one kept by a female named Phulzerec. One death from cholera occurred there to day, in a pilgrim who was here three days. I measured the room, it was 15 feet by 12, had only one door; there were 11 beds in it; other rooms were quite full, and the people very much crowded. A strong urinous and focal odour prevailed throughout; the atmosphere was oppressive and stifling." -.

was reported. It was in Bullia Gooroo's lodging-house; the entrance hall was thronged with people. I was told that pilgrims occupy every square inch of the ground, and at night there is no moving room. A strong urinous odour prevailed in the centre enclosure. In the back ground people defecated freely, and all the rubbish of the house lay heaped in corners unremoved."

"There was one room in this lodging-house (Phulzeree's) which is deserving of mention. Inside a person could hardly stand erect; the breadth was not over 6 feet; the length was filled up by whine of beds; the door was equal in size to the panel of an ordinary door; one could only ereep in; it was 1½ by 1½ feet."

"Found that the backyard of this and other houses, lodging-houses (which I inspected), were freely used as privies, and that no attempt was made to remove the soil. Rubbish of all kinds filled the courtyards, the rooms were unswept, and a sickening odour prevailed in all."

* "Visited several muts; found them, as usual, very filthy; the backyards of all were covered with filth; some of the privies were the greatest abomination I ever saw; both urine and excreta were in every stage of decomposition.

"There were two wells in the house from which water is drawn for domestic use. There is also a very noxions tank close by, close to the well that I saw, about twelve feet from it, and on a lower level than the grounds surrounded. The well was a hole containing water, washings of a takoor; this hole was never cleaned; water sinks readily in the soil; the little stagnant water in it was loaded with rubbish and swarming with worms. The water of the well was drunk by Khetter Mohun and others. Native doctor Fuckeera Sing

cleaned; water sinks readily in the soil; the little stagnant water in it was loaded with the soil with worms. The water of the well was drunk by Khetter Mohun and others. Native doctor Fuckeera Sing saw this well with me.

"From this place I went to the police station, and then to Bullia Gooroo's lodging-house. Seen a woman down with cholera (a Bengalee pilgrim), attacked this day, 22nd June. Pilgrims were pretty full in the place. Went to the backyard; seen as follows:—a well with privy enclosure 12 feet from it; the privy is on higher ground than the platform of the well; round about this platform of stone were excavations in the earth, which were deep urinals; the urine was unmistakeable both in appearance and odour, and no one could gainsay that the state of affairs was as bad as could possibly be. Filth and feculence were abundant all about, for the backyard was quite a promiscuous privy. The soil, if removed at all, was gathered only to be buried in the place. It was said that the waters of this well were not drunk; this, however, I doubt very much. I was shewn a well in an enclosure on the other side; the enclosure was surrounded by rooms for pilgrims, and it seemed as if this well was intended for them, and the well above alluded to for the pilgrims of the house. However, this well is only separated by a wall from the filth of the yard behind, and there is a drain leading from it, which gave tokens of being used as an urinal."

"I visited the lodging-houses on the 27th instant, and found the usual overgrowding; the privy was covered with filth; cholera stools were apparent; among others two of the above patiens were in the house, the rest were in hospital A large well, about 50 yards from the house, was the one the pilining said they got wather from, but used, they said, only for washing dishes, &c. The Nurindro water, they said was what they drawk. When I saw the well there were numbers drawing, they said for drinking purposes. It is without coping, and but slightly raised from the street; dust can freely blow into it. The streets are very brow, scarcely four feet wide in some places; the houses on each side are raised on high plinths; the backyar and privies rate on the same high level; the soil is loose black, permitting free soakage."

Dr. Smith describes the houses at Pooree as follows :-

"The houses are very faulty in a sanitary point of view. As a rule, each house is considered by raised on a masonry plinth from three to six or eight feet in height. Through this plinth runs a small sular masonry gutter, which communicates with the rooms in the interior of the house, and through the gutter passes fluid refuse and urine from the interior. Nothing can be more objectionable than this, and yet this system obtains in

refuse and urine from the interior. Nothing can be more objectionable than this, and yet this system obtains in the case of every house in Pooree.

Noxious ooze is continually trickling from the opening in every plinth, down its front, to a sink or cesspit below. A more dirty or inefficient plan of sewerage or drainage, or whatever it be called, could not be imagined. Sometimes even within the plinth itself a dark, deep, open cesspool exists, a receptacle of indescribable abominations; and yet there are thousands of these in Pooree for ever evolving deleterious gases. In the front of each house is a small verandah, immediately below the floor of which is the gutter already described, the effluvia from which consequently emanate within two or three feet of those who sit in the verandah,—an ever present source of danger to health. The interior of each house consists, as a rule, of two or three small rooms, leading one from the other, leeped with mud, and without any windows or roof ventilation. In these rooms pilgrims are crowded, until not an inch of space is left uncovered. The massing of human beings is something horrible; it exactly reminds one of sheep in a pen. It appeared to me almost wonderful that human beings could exist under such circumstances, the conditions being truly poisonous in character. Each room so-called may be described as a badly lighted den, in which ventilation is not only deficient, but altogether wanting; where the atmosphere is warm, close, stifling, and sickening, and where human beings are crowded together in excess, being in direct contravention of every known law of health. What organic poisons may not be lurking in those loathsome places! What more favorable seed-plot could be devised for the generation of specific disease!"

Dr. Mouat's description was in similar terms.

Dr. Monat's description was in similar terms :-

"In the lodging-houses they are crowded to such an extent, that I was shown one apartment, in the best pilgrim hotel of the place, in which eighty persons were said to have passed the night. It was 13 feet long,

10 feet 5 inches broad, with side walls six feet and a half in height, and a low pent roof over it. It had but one entrance, and no escape for the effete air. It was dark, dirty, and dismal when quite empty, and must have been a per house during the festival. In this house, in a similar room, occurred the first case of cholera of the kest outbreak. If this be the normal state of the best lodging-house in the broad main street of Pooree, it is not difficult to imagine the condition of the worst, in the narrow, confined, undrained, back-slums of the town, for there are lower depths even in this abode of filth and corruption."

[To this passage the following foot-note is attached:—"This statement seemed to be so incredible, that the matter was subjected to direct experiments in the Alipore Jail, where it was founed that 90 natives of average size could squat in a cell 10 feet square, and 120 could stand in the same space."]

The district superintendent of police also states :-

I went into a house in the town this afternoon; about 45 pilgrims were putting up, men and women. The place had only two doors, no windows (one of the doors was locked). This place measured 12 by 20 feet, certainly not more; and in this place no less than 45 persons were crammed. The stench was overpowering, and the heat like an oven; no wonder the people were attacked with cholera; and unless some haw is passed to prevent these pundahs overcrowding their houses with pilgrims, not only cholera, but other diseases, are sure to be generated."

Those were the opinions of three medical men describing the state of things since the former Bill was withdrawn. The subject was very carefully considered by Mr. Ravenshaw, the commissioner of the Orissa division, and he very strongly insisted on some measure being passed. The Bill before the Council had been prepared by Dr. Smith and Mr. Ravenshaw in consultation, and he thought that the object in view would be attained by it. He did not know that was any necessity to go into the details of the Bill, which would be printed and circulated. He thought that the extracts quoted showed that the Bill was prematurely withdrawn on the previous occasion on the mistaken supposition that there was no great evil

to be dealt with in regard to these lodging houses.

Mr. Schalch said the hon'ble mover of the Bill had referred to him as to the remarks made by him on a previous occasion when the former Bill was under consideration. He had no very clear recollection of the state of things in the lodging-houses of Pooree. He remembered that he went over a great portion of the town with the magistrate of Pooree. It was in the year of the famine, and very probably at that season of the year the number of pilgrims was very much less than ordinarily. His impression was that, after consultation with the magistrate, he considered that although the houses might not approach that state of sanitation which a sanitary officer might deem necessary, yet, taking them in connection and comparison with the general mode of life of the natives, there was no reason to seek for greater powers of interference than the magistrate could himself exercise for carrying out all necessary precautions. Certainly the extracts which had been read did show a state of things which required correction; and very possibly, since the time to which he had referred, it might be that the number of pilgrims had increased, and better accommodation was now required for them. Under these circumstances he had no wish to object to the introduction of the Bill; he thought, however, that the committee should carefully see that interference was not exercised to a greater extent than was actually required.

The motion was then agreed to.

EMBANKMENTS AND DRAINAGE.

Mr. Schaleh moved that the Bill to provide for embankments and drainage be read in Council. In doing so he said that on a former occasion—in fact at the last meeting of the Council-when he moved for leave to introduce this Bill, he explained the circumstances which gave rise to its introduction, and the objects sought to be attained by the measure. now, with the permission of the Council, briefly refer to the details of the Bill; and in doing so he proposed not to take up the time of the council by referring to those portions of the Bill which merely re-enacted the existing law, but would draw attention to those parts of the measure which were entirely new in principle, or which contained alterations or modifications to a considerable degree; and it would be the easier for hon'ble members to follow him, because such portions only had been printed in italies, while the rest of the Bill, which merely re-enacted the existing

law, was printed in the ordinary character.

The first point to which be would drawn the attention of the Council was the definition of the word "embankment" as given in the 2nd section. It now included not only those works which naturally fell under the definition of an embankment, but also other works, such as dams, dykes, walls, groynes, and spurs, which were required or made for the protection of embankments, or of any land from erosion or overflow of rivers, tides, or waters. It had been found that these subsidiary works were so inherent a part of embankments themselves that it was necessary that the embankment officer should have the same control over them

that he had over the embankments themselves.

The next section to which he would allude was the 7th, which would enable the engineer to construct new embankments where they were necessary for the protection of the country, and to dig out new channels for drainage. Hitherto the engineer had only power over existing embankments, but it had been thought advisable to give him similar powers over the drainage of the country. It had been found absolutely necessary that the powers now given should be exercised, though it would be under the same safeguards and after the same inquiries which applied to the powers exercised by embankment officers under the existing law.

In the 13th section there was a very important alteration. He mentioned on the former occasion how, under certain circumstances, it was found that very great loss and danger were incurred by having to follow the forms of pracedure laid down by the present Act before the embankment officer could take action in certain cases when immediate loss to life or property was imminent. It was now proposed to grant him power to take immediate action in such cases, subject to certain restrictions. If it be found afterwards, on inquiry being made, that the causes which led to such action being taken were not sufficient, or rather that the works executed were not required, provision was made whereby the former state of things should be restored at the expense of Government. This provision would compel embankment officers to exercise great care in putting these powers into force, for Government would hold them responsible if these powers were exercised without sufficient cause. At the same time a further provision was introduced whereby, in consequence of these works, which were executed for the benefit of the general community, causing loss or injury to private individuals, compensation would be made for such individual loss.

Sections 16 to 22 were of a totally new character. They referred to the drainage of the country, and empowered engineers to call upon the proprietors of lands to keep clear the drainage of their lands. It had been found that the absence of such a provision in the existing law had led to great difficulties, and it was to be hoped that by some provision of this sort means would be taken at a comparatively small cost to remove obstruction to the drainage of the country, which, in the opinion of many persons well able to form an opinion on the subject, had been held to be one of the causes of the severe illness of an epidemic nature which prevailed in the districts bordering Calcutta. No doubt there would be cases in which the measures which could be taken under the provisions of these sections for carrying out such improvements would not suffice to effect a thorough system of drainage, and in such cases it might become necessary to have recourse to the provisions of the other Bill which was introduced by the hon'ble member on his right (Mr. Eden). At the same time it was thought that in a very large number of cases the action taken under these sections would suffice for securing at a trifling cost the thorough drainage of the country in the greater number of instances where obstructions had been created.

In section 27 there was a very important modification of the existing law. By that law the whole cost of the maintenance and repair of an embankment is thrown on the zemindar of the estate on whose lands the embankment lay, utterly regardless of the benefit it might confer on other estates. It frequently happened that an embankment protected not only the estate of the proprietor in whose land it lay, but also largely benefited other estates. But under the existing law the proprietors of these particular estates would escape all payment towards the cost of the maintenance and repair of those works. It was therefore proposed to introduce in this Bill the principle which had been accepted in the Act passed by this Council in 1866. That Act (VII. of 1866) provided for the payment of the cost of land required for embankments, and declared that such costs should be borne by all the proprietors who benefited from the construction of the embankment, in exact proportion to the benefit they derived from its acquisition. It was proposed now to introduce the same principle here, and instead of declaring that the actual owner of the estate on which the embankment stands should bear the whole cost of its maintenance and repair, all estates deriving benefit from the embankment should pay towards such cost in the exact proportion in which they benefited from the embankment. He (Mr. Schalch) thought he need say but little in support of this principle; and in these days, when the local Governments were required to defray by contributions from the general community of their provinces the cost of works of a local nature, it seemed to him that the cost of embankments and all such cognate works should be defrayed by those who alone benefited from their construction, and not by the general public.

alone benefited from their construction, and not by the general paths.

Sections 28 to 34 incorporated in this Act the provisions of Act VII. of 1866 for apportune the cost of land required for the construction of embankments. This had been done in tioning the cost of land required for the construction of embankments. view to bringing the whole subject in one enactment, so that the law might be seen at one view.

Section 36 authorized the infliction of penalties in cases of the unauthorized interference with embankments or drainage works. It had been found that great injury had been done by persons who for their own advantage had injured such works. Thus it often happened that proprietors of estates, rather than incur the expense of making sluices for properly draining their estates, caused breaches to be made, which caused serious injury to the lands of the neighbouring proprietors. But while more stringent punishment was proposed to be enforced for such offences, provision was made for affording greater facilities to proprietors for obtaining the construction of any new embankments or drainage channels.

Part II of the Bill, commencing with section 42, made provision for compensation for losses sustained by the exercise of the powers conferred by this Act, and a subsequent portion of the Part referred to the procedure under which land was to be taken for the purpose of making embankments. A great portion of these provisions was based upon the existing law for the acquisition of land for public purposes contained in Act X. of 1870 of the supreme legislature. He did not quite understand, when the Bill was first placed in his hands, why these provisions were introduced; and here he might observe that when the Bill was entrusted to him, the Bill in its present form was placed in his hands, and although he accepted cordially the general principles of the Bill, he could not hold himself responsible for all its details; and in this

case he was not quite sure whether the provisions of that Act could properly be incorporated in it, nor how far the Council could modify existing Acts of the imperial legislature. But he believed that the reason, or introducing those provisions was that that Act made no provision for the acquisition of land on emergencies unless the forms of the Act had been previously gone through. He believed it was intended to provide a mode by which, in cases of emergencies, land could at once be taken up and the question of compensation subsequently determined. The provisions of the existing Act, it was believed, would not apply in all its entirety to the acquisition of land for the purposes of this Bill; and therefore it was thought expedient to modify them so as to meet the peculiar circumstances of the Bill.

Another section to which he would refer was section 84, which was of rather a sweeping nature, and conferred power to levy a fine on a village for injury to works constructed under the Bill where the offender could not be discovered. This section had been introduced at the instance of the Department of Public Works, who, notwithstanding their utmost endeavours, have been frequently unable to discover the offender in cases where severe injury had been done to embankments for the benefit of a village, regardless of the loss or damage which might occur to others. These offences had been committed with impunity, since the whole village combined to screen the offencer. He thought it would require rather strong grounds to warrant the enactment of such a provision, and that the section would fairly call for the most careful consideration of the select committee; and even if such a provision were found necessary, he thought it should be confined within the smallest limits necessary to meet the emergency of the case.

With these remarks he begged to move that the Bill be read in Council.

Baboo Degumber Mitter said that this was unquestionably a well-considered and a very desirable measure, and he subscribed to every word that had fallen from the hon'ble mover while applying for leave to bring in the Bill; and he readily bore testimony to the fact of many drainage channels having been closed by zemindars, either wantonly or for their own selfish purposes. The Bill, as far as he had been able to judge, had scrupulously respected private rights, while at the same time it had taken every precaution to protect public interests from being jeopardized by the acts of individuals pursuing their own selfish aims. And he entertained great bopes that with certain modifications, which no doubt the Bill would undergo in committee, the present measure, if carried out properly, besides furthering its immediate objects, would in a much greater degree contribute to check the ravages of epidemics, than the one which was avowedly intended for the purpose—he meant the drainage Bill.

The motion was then agreed to and the Bill referred to a select committee, consisting of Mr. Thompson, Mr. Robinson, Baboo Joteendro Mohun Tagore, and the mover Mr. Schalch.

VILLAGE CHOWKEEDARS.

Onethe motion of Mr. RIVERS THOMPSON the Bill to amend the Village Chowkeedaree Act, 1870, was further considered in order to the settlement of the clauses.

BABOO DEGUMBER MITTER moved the introduction of the following section after section 5 :-

"In section 21 of the said Act VI. of 1870, the word "quarterly" shall be substituted for the word "monthly;" and in sections 21 and 26 the word "quarter" shall be substituted for the word "month," wherever such word occurs in the said sections; and in section 25 the word "thirty" shall be substituted for the word "seven;" and in Section 26 the word "fortieth" shall be substituted for the word "tenth;" and the said several sections shall be read and construed as if the words hereby directed to be substituted had been originally inserted in the room or the place of the words for which they are hereby respectively directed to be substituted."

He said his object in moving this amendment was simply to afford relief to the tax-payers as well as to the tax-gatherer. Instead of subjecting tax-payers to the annoyance of constant visits from the tax-gatherer, he would provide for quarterly payments, which would not only relieve the villagers, but would very much lighten the work of the tax-gatherer, as well as facilitate the keeping of accounts by the punchayets; and he did not see that it would in any way interfere with the proper working of the law.

THE ADVOCATE-GENERAL said that from such information as he possessed (independently of the practical inconvenience of considering at the last moment important amendments in a Bill which itself had for its object the amendment of a law already passed), he did not know that there was any objection to the alteration proposed, in favor of convenience to the tax-payers and convenience to the collector, of substituting quarterly payments for monthly. But as the whole of the amendments proposed were before the Council in one notice paper, he thought it would be most convenient now that he should point out what appeared to him the practical objection to those portions of the amendments proposed that did not apply specifically to the 21st section of the Village Chowkeedaree Act. As he understood the whole of the proposed amendments of the hon'ble member, he desired that while the instalments of the tax should be paid quarterly in advance, instead of monthly in advance, the period of delay, or days of grace, given under the 25th section of the Act, should be extended from seven to thirty, and that the period after which action might be taken on the part of the punchayet under section 26 should be extended from the tenth to the fortieth day of the quarter. Now he (the Advocate-General) could not see any reason or principle why, if this alteration from monthly to quarterly payments was to be made, any inconvenience would be caused by taking steps for the collection

of the tax within the period now prescribed by the Act; that was to say, within seven days after the instalment became payable; and why, under the 26th section, the punchayet, in the event of non-payment, should not be able to comunice action for the enforcement of payment after the tenth day. Irrespective of that, he did not see that there was any material difference between the collection of the tax by monthly and by quarterly payments. Indeed, as regards the number of days of grace given to those amenable to the tax, he had to point out that if the alterations in sections 25 and 26, from seven to ten and from ten to forty, were introduced, the punchayet might be placed in a position of great inconvenience and difficulty. This was one of the instances of the extreme inconvenience to which the Council were put by the practice of introducing important amendments at the last moment. It was not possible to introduce amendments of this kind without very carefully considering how far they affected other provisions of the Bill. Let us compare the 25th and 26th sections, taking the alterations proposed to be made in those sections of substituting thirty for seven and forty for ten, with the 43rd, 44th, and 45th sections of the Act. Under sections 25 and 26, as proposed to be altered, the payers of the tax would have until the thirtieth day of the quarter to pay, and the punchayet could not take any steps whatever to enforce payment till after the fortieth day, and what they could do after the fortieth day would be to publish a list of defaulters, which would necessarily take up some time. If there was any meaning in the publication of this list, it was intended that it should be published for a certain number of days, greater or smaller. under section 27, the collecting member of the punchayet was to issue his warrant for the enforcement of payment to the chowkeedar, and the chowkeedar was to proceed to put it into execution. Under the 44th section the chowkeedar might go before the magistrate on the 15th day of the month following the month for which his salary was due, which, taken in connection with the period of forty days, until the expiration of which the punchayet could not proceed to enforce payment of the tax, would give the punchayet only five days, and sometimes only four, to obtain the necessary funds for the payment of the chowkeedar's salary; and some time should be given between the time when they were authorized to enforce payment of the tax and the day on which the chowkeedar's salary was due, to enable the punchayet to issue a list of defaulters and warrants to the chowkeedar for the levy of the tax. Practically, it would be quite impossible for all that to be carried out within these five days: therefore the punchayet would have no answer to make why they had not taken steps to enforce payment; and, in fact, the only answer they could make was that it was impossible for them to have taken such steps within the time allowed. Therefore, when the Council came to the consideration of the amendments proposed in sections 25 and 26, he would propose that those sections should remain unaltered. In other words, that any person liable to pay should only have seven days within which payment should be made, and that the punchayet should take action immediately after the tenth day; that would give ample time to put them in a position to pay the chowkeedar and protect themselves from the unfortunate position in which they would be put from not being able to college the tax within sufficient time to realize the amount required.

BABOO DEGUMBER MITTER said that he was quite willing to withdraw such portions of his amendment as might be found to clash with any portion of the Act, or to interfere with its proper working, and only to adhere to the amendment in sections 21 and 26, providing for quarterly instead of monthly payments of the tax. He would, therefore, beg leave to withdraw his former motion, and to substitute the following:—

"In section 21 of the said Act VI. of 1870, the word "quarterly" shall be substituted for the word "monthly;" and in sections 21 and 26 the word "quarter" shall be substituted for the word "month," wherever such word occurs in the said sections; and the said several sections shall be read and construed as if the words hereby directed to be substituted had been originally inserted in place of the words for which they are hereby respectively directed to be substituted."

Mr. Wyman said he thought that the remarks of the learned Advocate-General showed most conclusively the undesirability of introducing into a Bill once passed a new clause affecting more or less sections throughout the Bill. It almost became necessary in such cases to refer the Bill back to a select committee in order that it might be carefully seen that the alteration made in one section did not affect other sections; or, if it did, that those should all be carefully considered in connection with the original amendment. Although, perhaps, the proposition with regard to changing the period of payment from monthly to quarterly intervals was not in itself objectionable, yet, seeing that the principle was involved of the danger of some confusion arising in other sections, he thought it would be better to let the Act stand as it is, and he would therefore oppose the amendment on that ground. Besides, if the rate was made payable in quarterly instalments, it would be difficult for the punchayet to pay the chowkeedar's wages month by month: if the collections were made quarterly, he did not see how payments could be made monthly. On these grounds he would vote against the amendment.

Mr. Rivers Tohmpson said that, considering the opinions that had been expressed by the hon'ble member who had just spoken, he might have expected the hon'ble member to have voted with him at the last meeting of the Council, and allowed the Bill then to pass.

The amendment now under consideration was the amendment proposed in section 21 of the Act, in which the hon'ble member on his right proposed to substitute" quarterly" for

"monthly," so as to secure quarterly payments of the tax in advance. As the member in charge of the Bill he wished to explain that it was from no want of consideration of the point that the Act provided for monthly instead of quarterly collections of the tax. The Bill originally contained a provision for the payment of the tax by quarterly instalments. it was referred to the select committee there was a discussion on the question, and, if not unanimously, it was at least by a large majority, agreed that mouthly payments should be substituted for the proposed quarterly collections, and the reasons given for the change were that, as the sums were so small, it would tend to regularity of payments, and be rather a convenience that the villagers should have to pay a monthly rate instead of larger sums by quarterly instalments.

These considerations led the committee to adopt that view, and the section was so framed

by them and passed by the Council without discussion.

Then when the new Bill was introduced to correct certain inconveniences which had arisen from delay in the passing of the Bill, the hon'ble member got up at the moment when the question before the Council was whether the Bill should be passed, and pressed for the introduction of an amendment, not upon the Bill then under consideration, but in the Act which had been passed with the sanction of the Governor General. As the learned Advocate-General had pointed out, the amendment proposed in the 25th and 26th sections would be impracticable without entailing considerable difficulties in the collection of the tax, and as the hon'ble member opposite (Mr. Wyman) had stated, the introduction now of the amendment in the 21st section might possibly affect other sections of the law and create confusion and inconvenience. The particular objection taken by the hon'ble member would perhaps not apply, because the quarterly collections would be paid in advance, and the money for the payment of the chowkeedars' wages would be always ready. There was, however, no provision in the Act for the retention or custody of the money that would necessarily always remain in hand if a whole quarter's tax were levied in advance, and in the absence of any security for the proper application of the money, the sum, though small, would still be in the hands of some one, and there was then the risk of peculation and loss. He considered that on the whole it would be advisable to retain the 21st section of Act VI. of 1870 as it stood.

MR. SCHALCH said as a member of the committee on the former Bill, he might observe that he believed it was then agreed that all payments should be made monthly, and he retained that opinion only till the other day, when he had a conversation on the subject with the Commissioner of the Presidency division, who had taken special interest in the preliminary measures necessary for extending the provisions of the Act to his division. The Commissioner had urged very strongly that in his opinion, as the Act now stood there would be very great barassment to the tax-payers if they were required to pay these small sums monthly; and from the very fact of punchayets being required to keep elaborate accounts, much trouble would be saved by having them kept quarterly instead of monthly. He pressed the subject so very strongly that he (Mr. Schalch) felt inclined to alter his opinion. He certainly felt quite inclined to give his full support to the amendment as far as it was intended to convert monthly into quarterly payments. He thought that the learned Advocate-General had shown that there was a difficulty if the amendment was carried further so as to affect the 25th and 26th sections. He believed that the object of affording a longer period of grace for the payment of quarterly instead of monthly instalments was, because, if the instalments were payable quarterly, the villages would have to pay larger sums than if they had to pay monthly; but, looking to the fact that even the quarterly instalments would not be very heavy, he thought it scarcely necessary that any further period of grace need be allowed, and that the object of the Commissioner would be obtained by confining the amendment to the 21st section, and the substitution of quarterly for monthly in the 26th section.

So far from this alteration affecting, as the hon'ble member on his left (Mr. Wyman) feared would be the case, the security of the payment to the chowkeedars, it would, he (Mr. Schalch) thought, rather advance it : since the punchayet would have in their hands funds sufficient to meet the chowkeedars' wages for a quarter instead of for a month. If therefore the amendment were confined to the substitution of a quarterly instead of a monthly payment of the assessment, the object of the hon'ble mover of the amendment would, he thought, be carried out.

The substituted motion was then agreed to.

MR. RIVERS THOMPSON said that it had been brought to his notice only last week, that in the canal irrigation works in the Cuttack district the irrigation officers had found that they were unable to get any assistance from the village chowkeedars. Persons appropriated water without license or payment, and the officers of the department found that they could get no information from the people to enable them to discover the offenders. It was therefore thought that it would be better if power were given to the Government to authorise any officer, besides the police and magisterial authorities, to have the authority of applying to the chowkeedar for information and securing their services. He would therefore move the introduction of the following section after the above :-

"In section 39 of the said Act the following clause shall be substituted for clause 6 thereof;—'He shall supply any local information which the magistrate or any officer of police, or any other officer thereunto authorized by an order in writing of the Lieutenant-Governor may require;' and the said section shall be read and construed as if the said clause had been originally inserted therein, in place of the clause for which it is hereby directed to be substituted."

The motion was agreed to. On the motion of Mr. Thompson the Bill was then passed.

RECOVERY OF ARREARS OF REVENUE.

On the motion of Mr. Money the report of the select committee on the Bill to amend the procedure for the recovery of arrears of land revenue in respect of tenures not being estates was taken into consideration in order to the settlement of the clauses of the Bill, and the clauses were considered in the form recommended by the committee.

The Bill was settled without amendment; and on the motion of Mr. Money the Bill was

then passed.

The Council was adjourned to Saturday, the 14th instant.

Saturday, the 14th January 1871.

Present:

HIS HONOR THE LIEUTENANT-GOVERNOR OF BENGAL presiding.

T. H. Cowie, Esq., Advocate-General, The Hon'ble Ashley Eden, A. MONEY, Esq., C.B.,

A. R. THOMPSON, Esq., V. H. SCHALCH, Esq.,

MOULVY ABDOOL LUTBEF, KHAN BAHADOOR,

T. M. ROBINSON Esq., BABOO JOTEENDRO MOHUN TAGORE, T. H. WORDIE, Esq.,

AND

BABOO DIGUMBER MITTER.

REGULATION OF LODGING-HOUSES AT POOREE.

THE HON'BLE ASHLEY EDEN moved that the Bill for the better regulation of lodging-houses at Pooree be read in Council. The Bill had, since the last meeting of the Council, been circulated, and he did not think he need say anything further as to the necessity of the measure. The principle of the Bill was that every lodging-house keeper should have a certificate from the health officer appointed by Government that his house was a fit and proper place for the reception of lodgers, and the certificate should also state the number of lodgers the house was licensed to hold. On receipt of the health officer's certificate, the lodging-house keeper would have to pay a fee of one rupee, and the magistrate would then grant a license for the lodging-house, specifying the number of lodgers the house is licensed to contain, according to the number the house is capable of containing as certified by the health officer; and a fee of eight annas each would be levied on the number of lodgers for which the license was taken out: if the house was licensed to hold ten persons, the fee for the year would be Rs. 5. It was calculated that there would be 3,168 houses taking out certificates, and that each house on the average would take out a license for ten lodgers, for which the keeper would have to pay Rs. 5. The total collections on this calculation would amount to about Rs. 19,000, which, together with fines for breaches of the conditions of licenses, would be a contribution towards a fund which it was intended to raise for the conservancy and improvement of the town, as well as for the raising of sheds for such of the pilgrims as could not be accommodated in the licensed lodging-houses. It was calculated, however, that a much larger sum would be required for sanitary purposes, and this would be but a small contribution towards that object; and it still remained to be considered what other means could be adopted for the purpose. The question of a tax on pilgrims was under the consideration of the Government, and also a proposal was under consideration for receiving for the use of the pilgrims and for their accommodation some portion of the religious endowments which had been originally set aside for them, but which had been perverted to the private uses of the muthdars and keepers of shrines. These endowments represented a very considerable sum of money. That was, however, a These endowments represented a very considerable sum of money. That was, however, a question that did not arise on this Bill, and he merely mentioned it to show that a large sum was required, and that there was an intention to raise money for this purpose by other means.

As regards the Bill itself, he would point out that there were certain provisions in it relating to the inspection of lodging-houses and the withdrawal of licenses in cases of the breaking out of sickness or disease, or where the lodging-houses were not found fit for the purposes for which they were licensed; and by section 11 the magistrate was empowered to exempt any particular lodging-house from inspection in cases where, from the respectability or otherwise of the occasional lodgers, inspection was not deemed necessary, and where such persons would naturally, from their rank and position, resent the inspectional interference of the

Section 13 made it compulsory on the keeper of every lodging-house to report all cases of death, grave accident, or serious illness, and some other kinds of necessary information.

There had been introduced at the end of the Bill certain provisions which were not contained in the draft submitted by the sanitary commissioner and the commissioner of the division: they merely contained sanitary clauses similar to those of some of our municipal Acts, instead of leaving all such matters to be settled by rules to be drawn

to by the magistrate. Those provisions were unobjectionable, and had already been repeatedly introduced in our municipal Acts. He had also, in section 38, provided for the making of bye-laws by the magistrate with the sanction of the health officer. The question had been discussed as to whether there should not be a provision for the appointment of a town committee to whom might be entrusted the duty of carrying out the Act; but after consulting those connected with the town, he had come to the conclusion that it would be difficult to get a committee of sufficient influence and intelligence to work the Act, and it had therefore been determined to confer on the magistrate and health officer the necessary powers.

By section 40 the Lieutenant-Governor had power to extend the Act to other towns in Orissa to which pilgrims resorted. In some of those places the state of things was almost as bad as at Pooree in regard to sanitation, and he believed it was intended to extend the

law at once to Jajipore.

Mr. Money said there were one or two remarks that had suggested themselves to him with reference to one portion of the Bill. He observed from a memorandum by the commissioner of the division that the plan for licensing lodging-houses was but a part of a regular scheme for the sanitation of the town of Pooree; and though he thought that the Bill, so far as it went, was one that ought to receive support, he would be glad to have an assurance that another measure, which formed a component part of the scheme sketched out, would also be carried out. The commissioner, after recommending that the proposed measure for the licensing of lodging-houses should be passed, went on, in paragraph 11, to speak of extra accommodation for those pilgrims who could not be accommodated in the licensed lodging-houses: and on looking at a subsequent part of the memorandum, viz. paragraph 17, he found the commissioner speaking as follows of what would be the result of the pressure necessary for the establishment of serais along the road to Pooree:—

"The house-holder and petty shop-keepers in these road-side villages are for the most part poor. They have no capital to build better accommodation, and if they were hard-pressed by local authorities and made conform to the strict rules and regulations of the Serais Act, the probable result would be that they would vacate and leave the village with less actual shelter than it had before."

It appeared to him (Mr. Money) that it was very possible that a result of the same kind would take place in Poorce, and that only a small proportion of the pilgrims would find accommodation in the licensed lodging-houses. The memorandum of the commissioner did not give detailed information of what the number of pilgrims was; but he says—

"There are estimated to be about 6,336 houses in Pooree, and about 25,000 resident inhabitants. The probable average number of pilgrims is estimated to be about 50,000, though I think this is below the mark. We have no recent statistics, but between the years 1816 to 1829 the attendance of pilgrims was between a minimum of 66,000 and a maximum of 1,64,000, or a rough average of 1,25,000."

The commissioner then supposes that one-half of the house-holders would take out licenses for lodging-houses, and that such houses would accommodate an average of ten lodgers to cach house. If the figures are reliable, this would give a total of 31,680 pilgrims provided for; whereas it was stated that the average number of pilgrims was 50,000, and that that was a low average. It seemed to him (Mr. Money) therefore that it would be desirable for the Council to know that in connection with this Bill it was intended to provide some accommodation for those pilgrims who would under the operation of this Bill lose a portion of the shelter, however bad it might be, which they now had.

The Hon'ble Ashley Eden said that he believed he had already stated that one of the objects of the Bill was to obtain funds for the purpose of erecting sheds for the accommodation of those pilgrims who could not be accommodated in the lodging-houses licensed under the Bill; and a perusal of the report of the sanitary commissioner would show that one of the chief points of the scheme was to provide proper accommodation, not only at Pooree, but on the road leading to the town. In the memorandum of the commissioner of the division there was a long detailed list of the places at which it was proposed to provide such accommodation. Some of these had indeed already been erected by private munificence, and something had been

done during this year to provide accommodation for pilgrims during the festivals.

With reference to the apprehension expressed in regard to the deficiency of accommodation under the Act, it was true that it was stated in the commissioner's memorandum that probably 50,000 was a low average of the number of pilgrims that annually resorted to Pooree, and that the estimate showed that 30,000 only would be provided for in the licensed lodging-houses, yet he (Mr. Eden) thought it was a great mistake to suppose that 50,000 pilgrims congregated at Pooree at one and the same time, and that the requirements for the accommodation should be based on any such calculation. What was meant was that 50,000 pilgrims visited Pooree during the year. Although, no doubt, the greater number of these pilgrims were there during a particular part of the year, there was no reason to suppose that the whole 50,000 were there actually at the same time. There were several religious festivals held at Pooree, and many of the pilgrims only remained for a few days, moving on to other shrines, others taking their place. However, as he said before, it was intended, if possible, by the means to which he had alluded, to provide such accommodation as would be required in addition to the lodging-houses to be licensed under the Bill.

The PRESIDENT said, the fact that the whole number of pilgrims were not present at the same time would be seen if hon'ble members would turn to pages 10 and 11 of the second

Part of this Blue Book (Report of the Sanitary Commissioner for Bengal on the pilgrimage to Juggernath), where it was mentioned that in 1864-65 the attendance at the great festival was 40,000, and in the following year 45,000, that since the number had been decreasing, and that there was a tendency to decrease, and Dr. Smith gave it as his opinion that the annual attendance at Pooree was not more than 50,000.

The motion was then agreed to, and the Bill referred to a Select Committee, consisting of Mr. Schalch, Baboo Digumber Mitter, Moulvy Abdool Luteef, and the mover Mr. Eden,

with instructions to report within three weeks.

DRAINAGE AND IRRIGATION OF DISTRICTS.

The Hon'ble Ashley Eden moved that the time prescribed for the submission of the report of the Select Committee on the Bill to facilitate the drainage and irrigation of districts in Bengal be extended for three weeks. He said that the period within which the Committee were instructed to submit their report, three weeks, had now expired. On going through the Bill the Committee found great difficulty in settling the working details, and had to recast the Bill and alter its scope so as to make it entirely a local Bill applicable to particular swamps in the Hooghly district. He hoped that the Committee would be able to report within ten days more, and therefore asked for an extension of three weeks.

The motion was agreed to.

The Council was adjourned to Saturday, the 28th instant.

Cattle Disease.

From His Grace the Duke of Argyll, K.T., Her Majesty's Secretary of State for India, to His Excellency the Right Hon'ble the Governor General of India in Council,— (No. 118, dated India Office, London, the 24th November 1870.)

THE despatches from your Excellency in Council, Nos. 54 and 57, dated the 17th and 20th of May last, with their enclosures, having been transmitted to the veterinary department of Her Majesty's Privy Council, and referred by that department to Professor Simonds, I have to inform your Lordship in Council that, after a very careful consideration of the history, symptoms, and post-mortem appearances of the disease as given by the cattle plague commissioners in India, Professor Simonds states that he is unable to arrive at the conclusion that the disease investigated by them in the Bengal presidency is identical with the cattle plague of Europe.

Meteorological Telegraphic Report for the period 8th to 14th January 1871.

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· Velocity of wind in miles per hour.

GALCUTTA,
The 14th January 1871.

HENRY F. BEANFORD,
Meteorological Reporter to the Government of Bengal.

Weekly Report of Rainfall compiled at the Meteorological . Reporter's Office.

DIVISIONS.	6 Stati	ops.	from 1.	RAIN	Y PROM 1ST	REMARKS.
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•	Perozepore	***	Nil	Nil	8th Jan. 1871.	
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Y C	Furreedpore	***	ditto	ditto	ditto	Not received 1st January.
53	Mymensing	***	ditto	ditto	ditto.	
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HENRY F. BLANFORD,

Meteorological Reporter to the Govt. of Bengal.

CALCUTTA,
The 14th January 1871.

Abstract of Observations as received in the Meteorological Reporter's Office, Calcutta,

DURING THE HALF MONTH 16rs TO 30rs NOVEMBER 1870.

N.B - The Burometric data are reduced for temperatures, and not for height above sea level.

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		Min.	Φ	188-0 188-0 188-0 188-0 189-8 189-0 181-0 180-0
	ATION.	W	Day.	24th 25th 25th 25th 25th 25th 25th 25th 25
	SOLAR RADIATION.		Φ	116.5 116.5 116.0 116.0 116.0 116.0 116.0 116.0 118.0
	Sola	Max.	Day	3 19th 3 19th 3 15th 3
			Mean	
		10	gang	1105 1105 1105 1105 1116 1116 1117 1118 1118 1118 1118 1118
		.810	55 po	30-025 30-023 30-023 30-023 30-014 30-014 30-015 30-015 30-015 30-015 30-015 30-015 30-015 30-015 30-015 30-015 30-015 30-015 30-015
BAROMETER	MEAN OF	Hin	1e po	29-940 29-940 29-958 29-958 29-97 29-97 29-98 20-98 20-98 20-98 20-98 20-98 20-98 20-98 20-98 20-98 20-98 20-98 20-98 20-98 20-98 20
BARO	ME	,810	10 ho	
		'SAU	• po	29 976 29 976 20 055 20
			Near	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
level	DAG GAG	dn st	BloH	218 272 273 80 116 116 116 116 116 116 116 116 116 11
	STATIONS.	1	1	Port Bhir Asabatan Asabatan Asabatan Asabatan Prise Point Chistopa Island Chistopa Island Chistopa Island Basoro B

CALCUTTA-NOVEMBER 1870.

29 957 Ditto ditto of 1870

Mean baronestric pressures of 16 years little dirto of 1870

The 18th January 1871. CALCUTTA,

1 1 1

... 74.7 Mean humidity of 16 years ... 76.1 Ditto ditto of 1870

111

1.09

... 73 Mean rainfall of 16 years ... 76 Actual fall of 1870 ... 8 Excess in 1870 ...

Meteorological Reporter to the Gost. of Bengal, HENRY F. BLANFORD,

Mean Pressures and Temperatures of the preceding table reduced to sea level, with mean Wind directions.

	STA	TIONS.		Mean barometric pressure reduced to sea level.	Mean temperature reduced to sea level.	Proportional prevalence Max=100.	Mean direction
	6301		The state of			1	1
ort Blair			Sect Fire	West of the latest	The state of the s	1 1 1 1 1 1 1	The Control
fadras		***	***	******	******		100
		***	***	30:020	******	75	N 12° E
izagapatam	1924	***		30.038	79 1	67	N 68° K
kyab	•	***		30.026	76.0	- 59	N 15° W
alse Point		***	***	30.083	76.3	27	N 18° W
attack		***	400	30.083	72.0	60	N 42° W
mgor Island	100	***	***	30.036	74-1	41	N 1° E
hittagong				30:029	73.1	44	N 24° W
alcutta		***		30.039	73.0	45	
essore		***		30.014	69.6	87	N 77° W N 4° W
acca			***	30:017	71.6	43	
char				30.021	70-3	21	
azareebaugh				30 045	71.1	44	N 63° E
erhampore		100		30 04 4	72.1	46	N 65° W
itna		***		30.033	65.9	51	N 56° W
onghyr '		***		30 015	68-6	64	N 5° W
rjeeling"		24		30 084	67.2	23	8 75° W
owalparah	12.2			80.007	70:3	23	N 76° W
illong .	COMP			30.058	69:2		S 60° E
nares	37	***		30-064	65:2	21	8 55° W
oorkee		***		80 077	64:0	19	N 42° W
ALCOHOLD TO			1 1 N W	0.011	0.0	3	N 45° W

NOTE.

Barometric Pressure.—The pressures in column 2 of the above table for all stations below 500 feet are reduced from those given in column 3 of the table on the previous page by adding the weight of a column of air of the corresponding temperatures given in column 17. For stations of above 500 feet elevation, the reduction is made by Dippe's tables as given in Guyot's "Meteorological and Physical Tables."

Temperature.—The temperatures in column 3 are reduced from those in column 17, on

the preceding page, by adding 1° Fahr. for every 350 feet.

Wind Direction — The mean wind direction and its comparative prevalence are calculated from the whole number of wind observations recorded during the half-month. The latter is given as a percentage of the whole number of observations. The mean direction is calculated in the world way by Lambart's formula. in the usual way by Lambert's formula.

The above being all comparable, afford the data for constructing a meteorological chart for the half-menth which shall shew the isobaric and isothermal lines, and the resultant wind directions, which last may be represented by arrows of varying length proportioned to the prevalence of the wind. To these may be added the rainfall from the previous tables.

HENRY F. BLANFORD,

Meteorological Reporter to the Government of Bengal.

The 13th January 1871.

Results of the Meteorological Observations taken at the Surveyor-General's, Office, Calcutta, from 8th to 14th January 1841.

		eter,	THI	RMOM	ETER.			dew-	idity.	Win	D.			
Month.	Date.	Mean reduced barometer.	Highest reading.	Lowest reading.	Max. solar radia-	Mean dry buib.	Mean wet bulb.	Computed mean point.	Mean degree of humidity.	Prevailing direction.	Max. pressure.	Daily relocity.	Rain.	GENERAL REMARKS.
		Inches.		0	0	0	0	0		1 100 100	th	Miles.	In.	
an	- Sth	THE PERSON NAMED IN	76.7	59.5	131.5	67.0	60.8	56.0	0.70	N W & W		104.4	-	Cirri and cirrostrati and clear. Foggy from 8 to 11 r.m.
	9th	*985	76.2	57.0	130.0	65:7	59.4	54.4	-69	W N W &	***	105.7	••	Clear and cirri. Slightly foggy from midnight to 8 A.M., and 8
	10th	-970	75.2	56.7	132.5	65.5	;59·0	53.8	.68	NNW&W NW		108.0		to 11 P.M. Cirri and cirrostrati and clear. Slightly, foggy from 7 to 11 P.M.
	11th	*948	78.0	67.5	131.0	66.8	60-5	55.5	.69	WNW& WbyN		77.0		Clear. Slightly foggy from midnight to 6 A.M. and 8 to
	12th	.962	74:5	60.2	123.8	66.8	60.0	54.8	.67	WNW	***	107.4		Cirri and clear.
	13th	1977	76.5	57.2	130.0	65.7	58.0	51.8	.63	wnw		106-6		Clear. Slightly foggy from 9 to 11 p.m.
	14th	.996	77.5	562	135.5	65.7	58.0	51.8	•63	W by N & E N E		73.0		Clear, Slightly foggy from midnight to 6 A.M.

The mean barometer, as likewise the dry and wet bulb thermometer means, are derived from the twenty-four hourly observations made during the day.

The dew-point is computed with the Greenwich constants.—The figures in column 10 represent the humidity of the air, the complete saturation of which being taken at unity.—The receiver of the lower rain gauge is 1½ feet, and that of the anemometer 70 feet 10 inches, above the level of the ground.—The velocity of wind, as indicated by Robinson's anemometer, is registered from noon to noon.

		A
The extreme variation of temperature during the past seven days		21.8
The max, temperature during the past seven days		78.0
The max, temperature during the corresponding period of the past year		78.3
The mean humidity during the past seven days		0.67
The mean humidity during the corresponding period of the past year		0.61
	- 4	Inches.
The total fall of rain from 8th to 14th by lower rain gauge		Nil
The total fall of rain from oth to 14th by anemometer gauge		Nil
Ditto ditto, average of 17 previous years		0.09
Ditto between the 1st January and the 14th January		Nil
Ditto ditto ditto, average of 17 years		0.09

GOPEENAU H SEN, In charge of the Observatory.

The 16th January 1871.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY—MAIN LINE.

Approximate Return of Traffic for week ended 31st December 1870, on 1,131 miles open.

		COACHING TRAFFIC.	MERCHANI	OISH AND MINERAL TRAFFIC.	
	Number of passengers.	Concluing receipts.	Weight carried	Receipts.	Total Traffie Receipts.
Total traffic for the week Or per mile of railway For previous 25, weeks of half year	82,508§ 2,256,053	Rs. As. P. & x. d. 1.46.518 5 3 12.862 10 0 124 0 2 11 7 4 53,50,173 9 9 307,039 5 0	633,099 0	Rs. As. P. & s. d. *4,53,786 7 2 41,597 1 10 401 0 9 36 15 3 89,29,872 6 2 817,746 12 8	£ s. d 54,450 11 1 48 9 1,124,845 17
Total for 267 weeks COMPARISON.	2,338,5614	84,90,491 18 0 319,961 15 0	13,072,790 10	93,74,658 13 4 859,343 14 6	1,179,305 9
Total for corresponding week of previous year Per mile of railway correspond- ing week of previous year Total to corresponding date of pre- vious year	62,915 2,396,073§	1,13,926 13 9 10,443 5 10 100 11 8 5 4 8 36,59,127 7 11 335,420 0 5	Tin.	3,61,271 12 7 38,116 11 7 310 6 10 29 5 7 83,86,293 0 3 768,743 10 6	43,559 17 38 10 1,104,163 10 1

Rs. 37,925-5-2 added on account difference between audited and approximate returns up to 10th December 1870.

EAST INDIAN RAILWAY-JUBBULPORE LINE.

Approximate Return of Traffic for week ended 31st December 1870, on 223 miles open.

Total traffic for the week Or per mile of railway For previous 253 weeks of half year	4,215 90,403)		2. 2. 6. 5.	£ s. d. 1,806 12 1 8 10 1 25,600 11 9	Mds. 8rs. 58,276 20 707,235 80	Rs. As. P. 15,680 15 6 70 5 1 2,36,538 13 2	1,437 6 21,682	8 2 8 11 14 6	e, s. d. 3,334 0 3 14 19 0 47,385 6 3
Total for 263 weeks Companies.	94,6181	2,99,969 5	7	27,497 3 10	765,512 10	2,52,219 10 8	23,120	2 8	50,617 6 6
Total for corresponding week of previous year Per mile of railway correspond-	2,666	9,738 13	186	892 14 7	35,866 20	10,007 14 5	917	7,11	1,810 2 6
ting week of previous year Total to corresponding date of previous year	79,138	43 10 1 2,24,053 9 1		20,538 4 11	866,553 0	44 14 1 2,18,840 15 0	20,080	2 8 8 5	8 2 4 40,598 13 4

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for week ended December 31st 1870, on 1131 miles open.

Total traffic for the week Or per mile of railway For, previous 26 weeks of half year	32,938 291	Rs. A 16,363 144	10 7 1	9	1,500	4	1 11	Mds. Srs. 78,447 86 693 0	Rs. 19,902 175	0	11	£ s. 1,824 7 16 2	1	£ s. d. 8,824 7 2 29 7
	623,0071	3,27,590	1.1	100	30,029	1	9.5	2,732,156 16	6,32,547	9	94	57,983 10	175	88,012 12 8
Total for 27 weeks	655,9451	8,46,953	12	8	\$1,529	1	10½	2,810,604 12	6,52,449	10	81	59,807 17	81	91,336 19 7
Total for corresponding week of previous year Per mile of railway corresponding week of previous year	29,226	16,704		01	1,531		300	214,920 284	17,718		1	1,623 14	1	8,154 18 16
Total to corresponding date of				1	13	10	5	1,898 0	156	6	6	14 6	0	27 17 2
previous year	6428161	8,78,663	0 3	12 1	34,710	15	18	2,707,697 143	5,31,903	0	8	48,757 15	7	68 11 3

CALCUTTA AND SOUTH-EASTERN STATE RAILWAY.

Approximate Return of Traffic for week ended 31st December 1870, on 28 miles open.

Total traffic for the week	7,485 267 69,163±	Rs. As. P. 1,101 1 0 39 5 2 11,385 2 9	£ s. d. 110 2 1 3 18 7 1,138 6 4	Mds, Srs. 11,242 0 401 20 147,653 15	Rs. As. P. 348 15 0 12 7 5 4,848 8 3	£ s. d. 34 17 11 1 4 11 484 17 0	£ s.d. 145 0 0 5 3 7 1,625 3 4
Total for 14 weeks Comparison.	76,648}	13,484 3 9	1,248 8 5	158,895 13	5,197 7 3	519 14.11	1,768 3 4
Total for corresponding week of previous year Per mile of ratiway, corresponding week of previous year Total to corresponding date of previous year	3,600 131 66,2294	976 11 3 34 14 1 10,908 7 6	80 10 7 3 3 9 999 18 10	8,098 0 289 8 128,366 0	285 0 3 10 2 10 4,585 4 8	20 2 0 0 18 8 420 6 5	115 18 1 4 2 7 1,420 5 8

ORISSA CIRCLE.

Statement thereing the amount of Traffic and Tolls on the Kendraparah Canal during the month of October 1870.

DISTANCE FROM CUTIACK TO TERMINAL LOCK AT TIDE WATER, 42 MILES.

LOSMAGE.	Tollage. Tollage. Tollage. Tollage. Tollage.	8s. As. P. Bs. P
LOSMAGE.	Tollage, to traffic, traffic,	As. P. Br. As. P. Br. As. P. I. Br. As. P. Br. As. P. Br. As. P. Br. As. P. Br. Br. As. P. Br. Br. Br. Br. Br. Br. Br. Br. Br. Br
LOSMAGE.	Tollage, to traffic, traffic,	As. P. Br. As. P. Br. As. P. 11,070 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
LOSMAGE.	Tollage.	As. P. 139 0 299 8 6 0 343 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
LONNAGE	Tollage.	As. P. 138 0 8 8 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- 41		A 6184 1 1 1 1 1 1 8
- 41	Tons	
- 41		1111111111
	Mannads.	550 900 674
	Approxi- mate value of cargo.	Rs. As. P. 70 0 0 112 0 0 0 84 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
N. C.	Nature of cargo.	Shoofs Stone
stro	Number of b	
	Tollage.	Rs. As. P. 833 0 6 54 6 0 56 7 4 18 8 0 103 14 0 5 8 0 90 8 6 117 12 8 167 12 8
IGE.	Tons.	
TONNAGE	Maunds.	60
	Approximate value of cargo.	Rs. As. P. 5,955 0 0 5,452 0 0 4,19,000 0 0 0 19,572 0 0 8,638 0 0 8,638 0 0 0 18,650 0 0 19,572 0 0 19,572 0 0 19,572 0 0 19,572 0 0 19,572 0 0 19,572 0 0 19,572 0 0 19,572 0 0 19,572 0 0 19,572 0 0 19,572 0 0 19,572 0 0 19,572
	Nature of cargo.	99 Paddy 7 Oil cake 7 Salt fish 8 Clothes 4 Jagory 4 Jagory 7 Jingelly seed 66 Empty 666 Empty
напон		
	Tollage	A 11 12 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1
NAGE.	Tons,	
(\$1164)	.spunuM	- of oi -i t o
	mate value of cargo	Ra. 4584 4584 111111111111111111111111111111
	Nature of cargo.	11 Suggery 6 Passager 4 Sult 7 Empty
	Токкаев.	Approxi- mate mate to the total age. Tollage. Tollage. Our our of the total age. Tollage.

ORISSA CIRCLE.

Statement showing the amount of Traffic and Polls on the Taldundah Canal during the month of October 1870.

LENGTH OF CANAL OPEN, 7 MILES.

		LOCAL TRAFFIC.					ETORES		MATER ION W				ABSTRACT.			
ts.		value of	TONNAGE			in		Jo en	Tony	NAGE.		1	0.	0		*
Number of boats	Nature of cargo.		Maunds.	Tons.	Tollage.	Number of boats	Nature of cargo.	Approximate value of cargo.	Maunds.	Tons	Tollage.	Aumber of boats.	Nature of traffic.	Value of traffic.	Tonnage.	Tollage.
10	Paddy Empty Hemp	Rs. 2,000 2,500 400	4,000 2,043 87		Rs. As. P. 10 0 0 5 1 8 0 3 6	36 20	Rubble stone Laterite stone Lime	Rs. 900 40,000 2,000	16,961 40,518 5,784		Rs. As. 42 - 6 123 12 14 7	5 22	Irrn.works	4,900 51,000	219 2,581	Rs. As. 1
22		4,900	6,180	219	15 5 2	63		51,000	72,263	2,581	180 10	685		55,900	2,800	195 15

The tonnage above shewn is that of the boats, and not of the cargo.

SOUTH-WESTERN-CIRCLE.

Statement steveny the amount of Traffic and Tolls on the Midnapore Section of the High Level Canal during the month of October 187

LENGTH OF CANAL. OPEN, 24 MILES.

			. 01 9	80
		Tollage.	88. 48. P. 1,000 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1,119 11
		Tonnage.	26.	7,883
ABSTRACT.	wyo.	Value of tra	B.8. 3,06,108-	3,08,008
•		Nature of traffic.	Local Irra, works	
	.etsod	Number of	18. 18. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,861
ORKS.		Tollage.	Rs. As, P.	9 6 69
N NO	GB.	Tons.		267
RIGATI	TONNAGE.	Mannds	1111111 6,650	7,475
ALS FOR II	onlav (Approximate of cargo.	Rs. 25	908
ES AND MATERIALS FOR IRRIGATION WORKS.		Nature of cargo.	Miscellaneous Bricks Empty boats	Total
STORES A	steod	Number of or, rafts.		- 20
		Тойике.	Rs. As. P. 40 0 0 1710 0 0 1710 0 0 1710 0 0 1710 0 0 1710 0 0 181 0 0	1,060 2 0
	GB.	Lons.		7,628
	Токилев.	.spanuk	6,850 1,750 1,825 1,825 1,825 1,175 1,175 1,175 1,175 1,187	2,13,525
LOCAL TRAFFIC.	velue	Approximate of eargo.	R. 1,019 19,812 26.8 4,746 26.4 26.8 17.5 26.4 26.4 26.4 26.4 26.4 26.4 26.4 26.4	3,05,103
TOCA	•	Nature of cargo.	Coal Cotton Frewood Frewood Grains Hides and horns Meal Miscellaneous Oil and oil-seeds Paddy and noe Freegoods Garden produce Fortery Salt Salt Straw Tobacco Bricks Ghooding Freshes Ghooding Freeks Hatts of timbor	Total
	-ste	od to rodmuN	2021-00-00-00-00-00-00-00-00-00-00-00-00-00	18

The tonnege above shewn is that of the boats, and not of the cargo.

Statement shewing the amount of Troffic and Tolks on the Hidgellee Tidat Canal during the month of October 1870.

REMARKS. Rs. As. P. Tollage. ABSTRACT. Jo 2,33,103 Value of traffic. Nature of traffic. Number of boats. 8 STORES AND MATERIALS FOR IRRIGATION WORKS. 16 Tons. TONKAGE. B.—The toninge shown above is of the boats as measured and not of the cargo. . LENGTH OF CANAL OPEN, 26 MILES. Maunds. Nature of cargo. Fools and plant
Scorkee
Bamboo
Coal
Empty
Porlandement
Stone moulds
Iron Or of boats or rafts. d' Tons. 4,191 TONNAGE. Maunds. LOCAL TRAFFIC. Approximate value of CHIEGO. Nature of Number of boats.

The 17th January 1871.

dest. to Chief. Engr., and Jt.-Secy., P. W. D., Irrigation Branch, Bengal. PRINTED BY EDWIN MORRIS LEWIS, AT THE BENGAL SUCERTABLAT OFFICE. **Mo.** 4



0 1871

supplement to The Calcutta Gazette.

WEDNESDAY, JANUARY 25, 1871.

OFFICIAL PAPERS.

Non-Subscribers to the Gazette may receive the Supplement, separately, on payment of six Rupees per annum if delivered in Calcutta, or twelve Rupees if sent by Post.

Meteorological Telegraphic Report for the period 15th to 21st January 1871.

			Danamatan	Danamatar	THERM	METRE.	Humi-	WIND				
STATTORS.	Date.	Hour.	Barometer reduced to 32°.	Barometer reduced to sen-level.	Dry.	Wet.	dity Sat.	Direction.	Velocity.	Rain.	Clouds.	Weather initials.
CALCUTA.	Jan. 15th 16th 17th 18th 19th 20th 21st	10 16 10 16 10 16 10 16 10 16 40 16 10 10 10 10 10 10 10 10 10 10 10 10 10	30°067 29°934 30°041 29°905 30°004 9°899 30°052 29°945 30°106 29°947 30°076 29°897 30°021 29°880	30 088 29 952 30 980 29 933 30 023 20 917 30 082 29 963 30 125 29 985 30 095 29 915 30 040 29 899	68:9 77:0 72:0 78:4 71:0 78:0 78:0 79:3 79:6 79:0 69:0 75:6 68:0 74:0	58'0 61'7 62'8 64'5 63'5 66'0 65'9 67'0 65'9 61'6 62'6 58'6 62'0	62 47 65 46 55	ENE N NE NNE NE Nby E N by E N by E N W W W W			CK CK CK CK CK CK CK CK CK	6 8 8 8 8 8 8
SAUGOR ISLAND	15th 16th 17th 18th 19th 20th 21st	10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16	80°065 29°926 80°040 29°909 30°016 29°905 30°071 20°063 30°009 29°976 30°088 29°913 30°034 29°889	30.071 29.932 30.046 29.915 30.022 29.911 30.077 29.069 30.105 29.963 30.094 29.919 30.040 29.895	71 78 74 80 74 78 78 73 78 75 80 76 80 70	61 65 63 68 66 63 69 69 69 69 64 64	53 46 51 51 63 57 80 61 68 54 64 54 70 45	NNE NNW NNW NNW NNW NNW NNW NNW NNW NNW	6:4* 9:2* 6:9* 11:4* 8:4* 6:8* 9:8* 5:7* 10:0* 16:3* 7:1* 10:1* 4:9* 8:8*		CS C C C C, CK CK N K 8	\$\delta\$, \$\sin\$ \$\delta\$, \$\delta\$ \$\delta\$, \$\delta\$ \$\delta\$, \$\delta\$ \$\delta\$, \$\delta\$ \$\delta\$, \$\delta\$ \$\delta\$, \$\delta\$, \$\delta\$ \$\delta\$, \$\delt
Сиптавойе.	15th 16th 17th 18th 19th 20th 21st	10 16 16 16 16 16 16 16 16 16 16 16 16 16	29 928 29 856 29 935 29 807 29 877 29 772 29 945 29 911 29 804 29 804 29 804 29 805 29 807	30°042 29°968 30°049 29°990 20°883 30°058 29°929 30°043 29°917 30°082 28°916 30°037 29°919	70 80 71 79 74 84 75 84 79 84 74 79 78 79	60 65 62 65 65 65 67 71 69 68 72 68 70 64	59 40 57 43 59 50 63 43 54 53 72 67 62 50	ESE WSW ENE W NE W NE NW NW NW NW NW NW WNW	6.5* 7.1* 5.4* 6.5* 6.2* 6.3* 3.5* 6.7* 3.0* 8.3* 6.1* 8.0* 8.0* 8.0*			b, ma b, ma
Madras	14th 15th 16th 17th 18th 19th 20th 21st	10 18 10 16 10 16 10 16 10 16 10 16 10 16 10	20 961 29 865 29 963 29 838 29 844 29 847 29 857 29 851 20 999 29 896 30 067 29 950 30 049 29 911 30 024	29-991 29-895 99-993 29-868 29-974 29-877 29-982 20-851 30-029 29-026 30-097 29-980 30-079 29-981 30-079 29-981 30-079 29-981 30-079 30-079 29-981 30-079 30	82 81 82 81 82 81 82 84 86 86 83 82 82 82 83	74 76 75 74 74 73 75 75 76 76 76 77 75	66, 78 70 70 66 86 74 70 68 71 74 63 70 67	N by E N N E N E N E E N E E by S E N E N E by N N W by N N N W	11* 13* 14* 11* 7* 2* 6* 8* 6* 19* 7* 11* 7*	0-10 0-10 0-10 0-10 0-29		\$ e
- CUTTACK.	14th 15th 16th 17th 18th 19th 20th 21st	16 10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 10 10 10 10 10 10 10 10 10 10 10 10	29 915 29 967 29 866 29 900 29 829 30 907 29 817 29 933 29 829 30 915 29 991 30 927 29 841 30 927 29 846 29 970	29 945 30 051 29 949 30 074 29 912 30 091 29 900 30 036 29 913 30 099 29 955 30 110 29 964 30 111 29 929 30 654	83 70 78 70 77 77 77 77 77 76 76 76 80 75 78	70 67 64 60 65 60 67 62 66 68 69 67 69 66 66	49 84 42 49 45 56 56 89 72 60 54 55 49 61	ESENNW NE ENW ESENE NW NNW NNW NNW NNW NNW			CK C, OK C, KS KS, N N N	Fair.
ARTAB.	15th 16th 17th 18th 19th 20th 21st	16 10 16 16 16 16 16 16 16 16 16 16 16 16 16	29 836 30 007 29 933 30 000 20 833 29 965 29 851 20 992 29 861 20 987 29 855 29 855 29 855 29 855 29 855 29 855 29 855	2 910 30 023 29 948 30 016 29 945 20 981 29 866 30 008 29 806 30 013 29 870 30 003 29 846 29 971 20 941	70 79 69 71 88 72 80 74 82 74 80 71 78	61 63 65 68 70 64 69 67 71 67 72 65 69 65 68	34 65 43 70 61 66 64 75 62 67 59 59 54 70	NWENEWWENEWWENWWNNENWNN	1 2 2 2 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2		c c cs	Fair. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

· Velocity of wind in miles per hour.

CALCUTTA.

The 21st January 1871.

HENRY F. BLANFOR'D, Meteorological Reporter to the Government of Bengal.

. Weekly Report of Rainfall compiled at the Meteorological Reporter's Office.

		1 14	15th 1871.		PROM 1sT	
HONS.	Stations.		fall fro to 15 1874		UARY 1871.	REMARKS.
DIVISIONS.		Raiffall Tist to Jan. 187	Rainfall 9th to Jan. 18	Rain.	Up to date.	
• (Cuttack { Telegraph Office	Nil ditto	Nil	Nil ditto	15th Jan. 1871.	
	False Point	ditto	Not received	ditto	8th Jan. 1871.	
×	Jagipore	ditto	ditto	ditto	ditto.	
CUTTACK.	Jugutsingpore	ditto*	ditto	ditto	ditto.	
5	Sumbulpore	Not received ditto	Nil ditto	Nil	15th Jan. 1871	Not received 2nd to 8th Jan.
-	Bhuddruck	Nil	ditto ditto	ditto	ditto-	
	Khoordah	Not received	Not received		uitto.	
	Hazareebaugh	Nil	Nil	Nil	15th Jan. 1871.	
OB	Burhee	Not received Nil	Not received Nil	Nil	15th Jan. 1871.	
AGE	Ranchee	ditto	Not received	ditto	8th Jan. 1871	Not received 1st January.
N	Palamow	ditto	ditto	ditto	ditto.	
CHOTE NAGPORE.	Gobindpore	Not received	Not received	747	***	
5	Chyebassa	Nil	Nil	Nil	15th Jan. 1871.	
	Patna	Not received	Not received	ditto	ditto.	
To A	Barh "	Nil	ditto a	Na	8th Jan. 1871.	
100	Gya	ditto	Nil	ditto	ditto.	THE RESERVE OF THE PERSON OF T
	Sherghotty		Not received Nil	Nil	15th Jan. 1871	A CONTRACTOR OF THE PARTY OF TH
W.	Arungabad	Not received	Not received	C4		ALL THE STATE OF T
PATEA.	Chuprah	the second secon	Nil	Nil	loth Jan. 1871 ditto.	
PA	Sewan	ditto	Not received	ditto	8th Jan. 1871	
	Mozufferpore	and the same of th	ditto ditto	ditto	ditto.	
	Sectamaree	The state of the s	Not received	ditto	15th Jan., 1871	
201	Arrah "	Nil	Nil	Nil	15th Jan. 1871	
	Sasseram	The state of the s	Not received	ditta	ditto.	
	Bhubhooah "	ditto	ditto	9.00	180	
	Benares w 4 "	The second secon	difto .	Nil ditto	8th Jan. 1871	
BHAUGULPORE.	Bhaugulpore	- Charles and the contract of	Nil	ditto	ditto.	1 2.00 received and to sen Jan.
TPo	Banka Monghyr		Not received Nil	Nil	15th Jan. 1871	
0.00	Jamooie	· Not received	Not received	***		
TIL.	Begoosari		ditto	Nil	15th Jan. 1871	
	Purneah	ditto	ditto	ditto	ditto.	
	Rampore Beauleah	CHARGO.	ditto	ditto	ditto. 8th Jan. 1871	
1	Nattore	THE RESERVE OF THE PARTY OF THE	Not received Nil	ditto	15th Jan. 1871	
H	Dinagepore	200	ditto	ditto	ditto.	
NH SHY	Berhampore	ditto	ditto	ditto	ditto.	
RAJSHAHTS.	Pubna	A STATE OF THE PARTY OF THE PAR	ditto ditto	ditto	ditto.	Not received 2nd to 8th Jan.
	Serajgunge	PRODUCE SELECTION OF THE PROPERTY OF THE PROPE	Not received Nil	Nil	15th Jan. 187	Not received 2nd to 8th Jan.
	Titalya	CORP. THE REAL PROPERTY CO.	ditto	ditto	ditto.	
	Burdwan		ditto	ditto	ditto.	
W. E	Cutwa		Not received	ditto	8th Jan, 1871	
	Bood-Bood	ditto	Nil	ditto	15th Jan. 187	
TA	Rancegunge	ditto	ditto	ditto	ditto.	
BURDWAN	Sooree	ditto	ditto	ditto		
B	Howrah	. Not received	ditto	ditto	ditto .	Not received 2nd to 8th Jan.
	Contai	Nil ditto	Not received		Sth Jan. 187	1.
	Gurbetta	ditto	ditto	ditto	ditto	Not received 1st January.
VA S	14, -,		Nil	ditto	15th Jan. 187	
200	Bongong	ditto	ditto	ditto	ditto.	
		ditto	Not received	ditto	Sth Jan. 187	1.
	Choadangah	. Not received	ditto	Nil	8th Jan. 187	백 대명보다 기르면 어디 아이는 경험이다.
+	Jessore	ditto	ditto Nil	ditto	15th Jan. 187.	
PRESIDENCY.	THE REAL PROPERTY OF THE PROPE	ditto	ditto	ditto		
SID	Alinous 5 Juil	ditto	ditto	rlitto	ditto.	
PRE	Criphenour,	ditto	Not received	ditto	8th Jan. 187.	1.
-	Dum Dum	ditto	ditto	ditto	ditto.	
	Satkherah	ditto	ditto	ditto	ditto.	
		ditto	ditto	ditto	ditto.	
		ditto	ditto	ditto	ditto.	

oxe.	Stations,	Rainfall from lst to 8th Jan. 1871.	Rainfall from 9th to 15th Jan. 1871.		N FROM 1st NUARY 1871.	REMARKS.
DIVISIONS.		Rainfa 1st Jan.	Rainfa Sth Jan.	Rain.	Up to date.	
DACCA.	Dacca { Telegraph Office Burrisan! Dowlat Khan Perozepore Madaripore	Not received Nil ditto ditto ditto ditto ditto ditto ditto ditto Not received ditto Nil ditto Not received Not received	Not received Nil ditto Not received Nil ditto Nil Not received ditto	Nil ditto ditto ditto ditto ditto ditto ditto ditto	15th Jan. 1871. ditto. Sth Jan. 1871. 15th Jan. 1871. ditto. ditto. Sth Jan. 1871 Sth Jan. 1871. 15th Jan. 1871. Sth Jan. 1871. Sth Jan. 1871.	9
Сигттувова.	Chittagong {Telegraph Office Jail Cox's Bazar Rangamatea Hill Noakhally Tipperah Brahmaubariah	Nil ditto Not received Nil Not received ditto Nil	Nil Not received ditto ditto Nil ditto Not received	Nil ditto Nil ditto ditto ditto	15th Jan. 1871. 8th Jan. 1871. 8th Jan. 1871. 15th Jan. 1871. ditto 8th Jan. 1871.	Not received 2nd to 8th Jan. Ditto,
Сооси Винав.	Akyab Buxa Buxa Gowalbarah Dhobree Toora (Garo Hills) Darjeeling { Telegraph Office Rungbee Terai Falacottah Julpigoorie Boda	ditto ditto ditto to treceived Nil Not received ditto ditto ditto Nil ditto Nil ditto Not received	Nil ditto	ditto ditto ditto Nil Nil ditto ditto	15th Jan. 1871. ditto. 8th Jan. 1871. 8th Jan. 1871. 15th Jan. 1871. ditto. ditto	Not received 2nd to 8th Jan.
ASSAK.	Tezpore Nowgong Burpettah Gownatty Seebsaugor Golaghat Nazerah Debrooghur Suddya Shillong Jowai Samoogoodting	Nil Not received ditto 0.05 Nil 0.03 Nil Not received Nil Not received ditto	Not received ditto	Nil ditto ditto ditto	8th Jan. 1871 Sth Jan. 1871. ditto. ditto. ditto Sth Jan. 1871	Not received 1st January.

CALCUTTA,
The 21st January 1871.

HENRY F. BLANFORD,

Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Surveyor-General's Office, Calcutta, from 15th, to 21st January 1871.

	MAKE A			WIND	humidity.	dew-			TER.	емомн	Тив	ter.		
	Rain.	Daily velocity.	Max. pressure.	Prevailing direction.	Mean degree of hum	Computed mean point.	Mean wet bulb.	Mean dry bulb.	Max. solar radia-	Lowest reading.	Highest reading.	Mean reduced barometer.	Date.	Menth.
THE	In.	Miles.	Th		- A	_	a .		PEA F					
Clear and cirro on muli. Slightly foggy from from	7	126.0		ENE&N	o-ei	51·9 O	O 58.2	68-8	133.0	57'3	78:4	Inches, 29.986	15th	Jan
7 to 11 P. M. Clear and cirr cumuli.		150.6		NNE&N	62	54.2	60.9	68.9	137-6	60.0	79.5	971	16th	
Clear and cirro et	2	136.7	•••	NNE, NE	.66	57.4	63.0	70'0	137.8	61.2	79.2	*945	17th	
Stratoni and cirr cumuli. Slightl foggy from 9 t 11 p.m. Drizzle		81.7	•••	N by E, N N E & N E	*68	60.8	66.1	72.7	124.3	67.8	79.4	-982	18th	•
Chiefly clear. Slight		98.2		N&NW	-66	59.5	65.2	72:3	134.9	65.4	79.8	30.002	19th	
night and 1 A.M. Clear. Slightly for gy at 10 and 1 P.M.		156.1		N W & W	.66	56.4	61.9	68.8	135.0	62.6	75.7	29.976	20th	
Clear. Slightly for gy at midnight.	*	109.1		W & W by N	.68	54.6	59.7	66.1	134.5	58.3	75.0	.943	21st	

The mean barometer, as likewise the dry and wet bulb thermometer means, are derived from the twenty-four hourly observations made during the day.

The dew-point is computed with the Greenwich constants.—The figures in column 10 represent the humidity of the air, the complete saturation of which being taken at unity.—The receiver of the lower rain gauge is 1½ feet, and that of the anemometer 70 feet 10 inches, above the level of the ground.—The velocity of wind, as indicated by Robinson's anemometer, is registered from noon to noon.

		0
The extreme variation of temperature during the past seven days		22.5
The max. temperature during the past seven days		79.8
The max. temperature during the corresponding period of the past year		83-2
The mean humidity during the past seven days		0.65
The mean humidity during the corresponding period of the past year		0.72
		Inches.
(by lower rain gauge		Nil
The total fall of rain from 15th to 21st {by lower rain gauge by anemometer gauge		Nil
Ditto ditto, average of 17 previous years		0.08
Ditto between the 1st January and the 21st January		Nil
Ditto ditto ditto, average of 17 year	s	0.17

GOPEENAUTH SEN, In charge of the Observatory.

The 23rd January 1871.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY-MAIN LINE.

Approximate Return of Traffic for week ended 7th January 1871, on 1,2793 miles open.

		COACHING TRAFFIC.		MERCHAND	ISE AND MINER	al Trappic.	Total Traffic	
	Number of passengers.	Coaching receipts.		Weight carried.	Rec	Receipts.		
Total traffic for the week Or per mile of railway For previous weeks of half year			d. 10 7	Mds, Srs. 566,568 20	Rs. As. P. 3,71,306 8 3 290 3 2	& s. C. 34,036 8 7 26 12 0	£ s. 47,058 9 1 36 15	
Total for 1 week		1,42,058 10 2 13,022 0	10	566,568 20	3,71,306 8 8	340,036 8 7	47,058 9	
COMPARISON. Fotal for corresponding 9 days of previous year For mile of railway, correspond-	194.1963	2,82,038 4 11 25,833 10	3	767,998 30	4,55,652 2 4	41,768 2 3	67,621 18	
ing period of previous year Total to corresponding date of pre- vious year	101.1001	249 5 11 22 17 2,82,038 4 11 25,853 10	- 7	769,998 30	402 14 0 4,55,652 2 4	36 18 7 41,768 2 3	59 15 67,621 12	

EAST INDIAN RAILWAY-JUBBULPORE LINE.

Approximate Return of Traffic for week ended 7th January 1871, on 223 miles open.

Total traffic for the week Or per mile of railway For previous weeks of half year		Rs. As. P. 12,844 4 9 57 9 7	£ s. d. 1,177 7 11 5 5 7	Mds. Srs. 47,049 0	Rs. As. P. 15,224 6 0 68 4 4	£ s. d. 1,305 11 4 6 5 2	£ s. d. 2,572 19 3 11 10 9
Total for 1 week	3,923	12,844 4 9	1,177 7 11	47,049 0	15,224 6 6	1,395 11 4	2,572 19 3
Total for corresponding 9 days of		off or the	8 1	1	10	49	(12 36 77 77
Per mile of railway, correspond-	6,090}	19,177 11 4	1,757 19 2	26,048 10	7,095 6 9	G50 8 * 8	2,408 7 5
ing period of previous year Total to corresponding date of		86 0 0	7 17 8		31 13 1	2 18 4	10 16 4
previous year	6,0901	19,177 11 4	1,757 19 2	26,048 10	7,095 6 9	650 8 3	2,408 7 5

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for week ended 7th January 1871, on 1563 miles open.

Total traffic for the week Or per mile of rallway Pror previous weeks of half year	27,8871 178	Rs. As. P. 16,163 16 9 103 7 9	£ s. d. 1,481 13 5 9 9 4	Mds. Srs. Rs. As. P. 105,632-35 25,027-3-10 675-0 159-14-8	£ s. d. 2,294 3 3 14 13 2	£ s. d. 3,775 16 8 24 2 6
Total for 1 week	27,8871	16,163 10 9	1,481 13 5	105,682 35 25,027 3 10	2,294 8 8	3,775 16 8
Total for corresponding week of previous year	23,9051	13,725 6 6	1,258 3 3	08,864 212 9,714 2 11	890 9 4	2,148 12 7
Total to corresponding date of previous year	23,9081	121 3 2 13,725 6 6t	11 2 2	608 0 85 12 5 68,864 212 9,714 2 11	7 17 3 890 9 4	18 19 5 2,148 19 7

CALCUTTA AND SOUTH-EASTERN STATE RAILWAY.

Approximate Return of Traffic for week ended 7th January 1871, on 28 miles open.

Total traffic for the week	8,028 287 76,6481	Rs. As. P. 1,253 4 9 44 13 10 12,484 3 9	C. C. P. L. STONY SHOW CONTRACTOR	Mds. 8rs. 7,584 16 270 35 153,895 13	Rs. As. P. 234 9 3 8 6 0 5,107 7 3	£ s. d 23 9 2 0.16 9 519 14 11	£ s d, 140 1 9 5 6 6 1,763 3 4
Total for 15 weeks Companison.	84,6761	18,740 8 6	1,374 1 0	166,470 28	5,432 0 6	548 4 1	1,917 5 1
Total for corresponding week of previous year Per mile of ratiway, corresponding week of previous year Total to corresponding date of previous year	4,5861 162 60,759	854 12 3 30 8 5 11,763 3 p	75 7 1 2 16 0 1,078 5 11	9,892 22 350 0 188,168 22	305 7 6 10 14 7 4,890 12 2	28 0 0 1 0 0 . 448 6 5	106 7 1 3 16 0 1,526 13 4

PRINTED BY EDWIN MORRIS LEWIS, AT THE BENGAL SECRETARIAT OFFICE.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, FEBRUARY 1, 1871.

OFFICIAL PAPERS.

Non-Subscribers to the Gazette may receive the Supplement, separately, on payment of six Rupees per annum if delivered in Calcutta, or twelve Rupees if sent by Post.

Proceedings of the Council of the Lieutenant-Governor of Bengal for the purpose of making Laws and Regulations.

Saturday, the 28th January 1871.

Present?

. HIS HONOR THE LIEUTENANT-GOVERNOR OF BENGAL, presiding.

T. H. Cowie, Esq., Advocate-General,
The Hon'ble Ashley Eden,
A. Money, Esq., c.b.,
A. R. Thompson, Esq.,
V. H. Schalch, Esq.,
Moulvy Abdool Luteef Khan Bahadoor,

T. M. Robinson, Esq.,
F. F. Wyman, Esq.,
Baboo Joteendro Mohun Tagore,
T. H. Wordie, Esq.,
AND
Baboo Digumber Mitter.

RECOVERY OF LAND REVENUE IN ASSAM.

Mr. Rivers Thompson, in moving for leave to bring in a Bill "for the recovery of land revenue and the mutation of names in Assam," said he would explain briefly the circumstances which made necessary a recourse to legislation on this subject. It had been for some time under the consideration of the Government to frame rules for the revenue administration of the Assam province. In Assam the whole proprietary right in the soil might be said to be vested in the Government, and the system in force since our acquisition of that province had been to make an annual settlement directly with the ryots for the lands in the villages occupied by them. For making these settlements, as well as for collecting the Government demands, a class of agents termed "mouzadars" were employed in every district, who did not necessarily hold any interest in the soil themselves, but who were employed much in the same manner as tehsildars in the north-west provinces, in arranging for the settlement of villages, and in the realization of the Government revenue. For such duties they received a percentage ont he collections made by them on behalf of Government. These mouzadars were either in charge of a single village, if the village was a large one; or of a circle of villages, if the villages were small. As far as he (Mr. Thompson) understood, the practice had been, on the occurrence of a default in the payment of revenue, for the mouzadar to report the circumstances of the case to the district officer, who thereupon proceeded to summon the defaulter, and after a certain allowed time if the money was not paid in, to attach the property of the defaulter, or to arrest and imprison him. There was reason to believe that under the light assessment which prevailed in Assam, the Government demand was punctually settled, and resort to such measures had very seldom been found necessary. It might, however, be noted that the procedure under which the authorities acted in cases of arrears of revenue, even if it was uniform throughout the province, had t

This was ascertained more precisely on the Lieutenant-Governor's recent visit to Assan when the general rules submitted by the commissioner for the revenue administration of the province received the sanction of the Lieutenant-Governor as being passable by the executive Government. These referred generally to the appointment and removal of the mouzadars, the procedure in making the yearly settlements, and the determination of the rates of assessment. It was, however, pointed out to the commissioner that the practice under which, in default of payment of the Government demand, recourse was had to fine and imprisonment, could not be enforced without law. Accordingly a reference was made to the local officers, and to the rules prepared by the commissioner and revised by the Board of Revenue, embodying with some slight modifications the procedure now in force, it was proposed to give legal sanction by an Act of this council. Occasion had been taken, on the recommendation of the local authorities, to add to the Bill certain sections, prescribing the course to be observed in cases connected with the mutation of names. It was found to be a not uncommon practice for a ryot to resign his holding during the currency of a settlement without giving any notice to the district officers. Also, on the occasion of the death or absence of a ryot, other persons came forward to take possession of the vacated lands, and in many instances without any right to do so. It was therefore thought proper to legalize by registration all transfers of holdings which a ryot might wish to relinquish, and provision would be made on the subject in the present Bill.

If leave was given to bring in the Bill, he would take an early opportunity to explain the form which it was proposed to give it.

The motion was agreed to.

RECOVERY OF FINES.

Mouly Abbool Luter moved for leave to bring in a Bill "to facilitate the recovery of fines imposed in Bengal." In doing so he said he begged to state the circumstances under which he was induced to propose the introduction of the Bill, and the objects proposed to be attained by the same. By section 4 of Act V. of 1867 of this Council, passed on the 30th of May of that year, the provisions of sections 63 to 70 of the Indian Penal Code, and of section 61 of the Code of Criminal Procedure, were made applicable to all fines which might be imposed under the authority of any Act thereafter to be passed by this Council, but the provisions of the sections of the Penal Code which he had mentioned were not made to apply to fines imposed under the authority of any Act the Council passed previously to the passing of that Act. His object was to get an Act passed by which this difficulty might be removed, for, as he would presently explain, considerable difficulty had been experienced by judicial and executive authorities in enforcing penalties imposed under the authority of Acts passed previously to June 1867. As an illustration, he would mention that the municipal commissioners for the suburbs of Calcutta had found it exceedingly difficult—nay, almost impossible—to carry out the provisions of Act VII. of 1865 for the better regulation of slaughter-houses. The result was that the Act in question had proved perfectly powerless. That Act provides penalties on persons using as a slaughter-house places not licensed as such, and so forth. It had been found that two of the largest slaughter-houses in the suburbs, which were the property of wealthy men, had been given on leases to men of straw, and these latter were held to be the parties who were actually using them within the meaning of that Act. These men had applied for licenses and had been refused; but notwithstanding such refusal they had, in defiance of the law, been openly using these slaughter-houses, and on being convicted for a breach of the provisions of the Act and sentenced to pay heavy fines, it was found that they had no movable property which could be distrained and sold for the recovery of the fines under the provisions of section 61 of the Code of Criminal Procedure, which was the only means provided for the realization of such fines, and the result was that the slaughter-houses in question were to the present moment carried on in full vigour in open defiance of the law, for the law was quite incapable of enforcing its penalties.

It seemed useless to pass an Act and make a breach of its provisions punishable by fines if there be no means to enforce the penalties attached to the offence. He thought that this difficulty would be met by passing a short Act of the nature he had proposed, and he therefore

begged to move for leave to bring in this bill.

The motion was agreed to.

The Council was adjourned to Saturday, the 4th February.

Report on the Alooakhooa Mela.

From J. H. RAVENSHAW, Esq., Officiating Collector and Magistrate of Dinagepore, to the Commissioner of Revenue, Rajshahye Division, Berhampore,—(No. 15Ct., dated Camp Mohipaul, the 17th December 1870.)

I have the honor to submit the following report on the Alocakhooa mela which is just concluded.

. 2. This fair takes place annually at the above-mentioned place. It has now been established for some years, and of late has greatly increased in proportion, and bids fair to rival the well known Nekmurd méla. It commences at the full moon in Kartick this year, falling on the 8th November. It is held on the property of Baboo Ramprosaud Roy.

3. I determined this year on visiting it to institute such sanitary measures as were practicable. I reached the fair on the 7th November with the district superintendent, and found that inspector Huri Churun had carried out fully the orders I had given him on the subject.

. 4. In the first place, broad streets were marked out with flags from north to south and east to west, each from 24 to 30 feet wide. All booths and shops were erected on these lines in regular order, and no encroachments allowed. Latrines were provided to leeward at some distance, and all nuisances within a marked limit were specially forbidden; proclamation to this effect being notified by beat of drum every few hours. As the fair increased in dimension the roads were extended on all directions, thereby affording a plentiful and free current of air. The municipal darogah, with twelve coolies and eight mehters, looked after the conservancy. The most scrupulous cleanliness was observed. The streets were kept constantly clean and swept frequently, and all offal and dirt collected and immediately buried. I remained at the fair till the 13th, and even after so many days not the slightest bad smell was observable, notwithstanding the vast concourse of people and the thousands of head of cattle present. I visited every portion of the fair twice daily, and the most perfect order prevailed. Some difficulty at first resulted in enforcing the conservancy arrangements, and small fines of from two to eight annas were inflicted in many cases before the necessity of using the latrines was fully comprehended and the determination to prevent encroachments on the roads understood. A hospital was erected on a convenient spot, which was presided over by native doctor Ruheem Buksh.

Not a single death took place during the fair among the large concourse, estimated at from 60 to 80,000 people; no sickness of any kind of a severe nature occurred; and even among the cattle I could hear of no loss. I had a watch carefully kept on all cattle entering the méla, as the foot and mouth disease had been to some extent prevalent in the district, and, I had heard, very servely towards Darjeeling, though no cattle were stopped as no case of disease

shewed itself.

6. The order preserved was very creditable to the police and also to the populace. Inspector Huri Churun exerted himself to the utmost, and deserves great credit. The whole of the arrangements were under his immediate supervision.

The gang of bad characters usually attached to such gatherings were either absent or deterred by the police arrangements from carrying out their predatory habits; but three cases of petty theft were brought before me, and the prisoners in each were convicted and flogged in the centre of the fair. One case of personation of a constable took place; but the plaintiff was induced to abscond by some parties from Purneah connected with the prisoner. The méla is on the Purneah borders, and next year I think the Purneah police should attend and assist in keeping order.

8. Baboo Tarini Prosaud Rai, the landowner, gave every assistance in a most willing manner. He thoroughly appreciated the advantages of the measures undertaken, and has supplied me with all the statistical information that is alluded to in this report. He has promised to make the roads roughly marked out this year permanent, so that for the future there may be no further necessity for laying them out. He also wishes to make a road to the mela from the imperial road about five miles distant, but has been deterred from doing so by the other zemindars through whose lands it will pass. This matter will probably be the subject of a future communication. I did not think proper to take any measures regarding prostitutes, as I had no European medical officer present. Some few were at the mela, and were informed they would not be molested as long as they conducted themselves quietly and with outward

9. I will now pass to the more statistical part of the report. The general part of the fair, by which I allude to the booths and shops, occupied probably two miles of road. All were carefully arranged according to their trades. The extension of the roads through the cattle pastures was probably double. Very large sales of cloth, beads, and brass utensils, took place.

10. Of elephants brought for sale, most were quite small but realized very large sums.

The minutest animal, scarce able to carry his mahout, fetched Rs. 1,100.

11. The horse mart was very small, and no animals worth purchase were present; but the native tatoo were very numerous, and found ready sales. The cattle market was more extensive than the whole of the rest of the fair, and covered, I should think, at least a square mile of land. Very ready sale was found for bullocks, which realized various prices from Rs. 15 to 60. Of buffaloes also there was a fine show, but mileh cows were neither numerous nor remarkable for their excellence.

12. The accompanying statement will show the estimated number of all products and 12. The accompanying statement will show the estimated number of all products and live-stock attending the fair and sold, with a rough calculation of the prices realized. The snop-keepers paid the zemindar four and half annus per hut for their shops, and venders of cattle so much on their sales. All sales were duly registered by the zemindar. The total absence of receipt stamps attracted my attention. I think this matter should be rigorously enforced for the future, and a vendor sent to the fair with a full supply for distribution.

13. All expenses for conservancy and medical aid were charged on the zemindars, who readily paid them. A memorandum is attached shewing the entire cost.

No.	paid them. A memorandu	Number of shops.	Value of things brought for sale.	Quantity of things, and number of animals brought for sale.	Value of things sold.	Quantity of things not sold.	Value of things not sold.
1 2 3 3 4 5 6 6 7 7 8 9 9 10 11 12 13 14 14 15 16 17 18 19 20 20 21 22 22 23 24 24 25 26 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	Kaian shops Dacea merchant shops Satuaranchee ditto Shops for selling fried rice and tart Shops of wooden beads Hooka shops Indigo ditto Sunko, or shell anklets Tailors' shops Shoe ditto Blanket ditto Quilt ditto Tatoo and horses Elephants Bullocka and cows Buffalces Wooden things * Iron basins Spade Spices Brass and Belmatal plates Sundry articles Moodi shops Churi, or a kind of anklets	606 891 7 11 51 62 32 45	Ra. As. P 1,90,783 0 0 7,555 0 0 2,783 8 0 576 0 6 1,236 4 0 1,236 4 0 1,148 0 0 1,148 0 0 3,651 0 0 3,651 0 0 3,651 0 0 3,651 0 0 1,995 0 0 1,195 0 0 1,195 0 0 1,195 0 0 1,195 0 0 1,195 0 0 1,195 0 0 1,195 0 0 1,195 0 0 1,195 0 0 1,195 0 0 1,195 0 0 1,195 0 0 1,195 0 0 1,195 0 0 1,195 0 0 1,195 0 0 1,195 0 0 2,20,055 0 0 1,195 0 0 1,195 0 0 2,20,055 0 0 1,195 0 0 1,195 0 0 2,20,055 0 0 1,239 0 0 782 0 0 1,195 0 0 2,20,055 0 0 2,20,055 0 0 2,20,055 0 0 2,20,055 0 0 2,20,055 0 0 2,20,055 0 0 2,20,055 0 0 2,20,055 0 0 2,20,055 0 0 2,20,055 0 0 2,20,055 0 0 2,20,055 0 0 2,20,055 0 0	558	Rs. As. P. 1,84,345 13 0 2,588 0 0 2,588 0 0 2,588 0 0 2,061 13 0 407 4 1,068 8 0 1,166 8 0 1,166 8 0 2,084 0 0 3,157 8 0 3,069 0 0 1,816 0 0 20,882 0 0 31,955 0 0 51,364 0 0 6,528 11 0 1,112 0 0 6,603 0 0 711 0 0 1,040 0 0 6,603 0 0 9,528 11 0 1,182 2 0 3,90,581 13 0 3,90,581 13 0	409 111 8,589 63	Rs. As. P 6,439 3 0 1,667 0 0 6,245 8 6 7,271 0 0 7,8 12 0 107 8 0 108 12 0 108 12 0 131 0 0 131 0 0 139 0 0 179 0 0 1,48 0 0 1,30,000 0 0 1,48 0 0 1,50,000 0 0 1,48 0 0 1,71 0 0 52 0 0 1,71 0 0 52 0 0 1,78 6 0 1,78 6 0 1,78 6 0 1,78 7 0 1,88 6 8 6 132 0 0 1,78 8 6 132 0 0 1,78 8 6 132 0 0 1,78 8 6 132 0 0 1,78 8 6 132 0 0 1,75 8 6 132 0 0 1,75 8 6 132 0 0 1,75 8 6 132 0 0 1,75 8 6 132 0 0 1,75 8 6 132 0 0 1,75 8 6 132 0 0 1,75 8 6 132 0 0 1,75 8 6 132 0 0 1,75 8 6 132 0 0 1,75 8 6 1,
	Big chests Cart wheels Khat Palkee Chowkee	675	Breadth fro	m north to s	east to west is 26 uth is 20 russee mile.	russees or 5 s, or 4° of a 1	of a mile. nile; or 520 squa

List of expenditure incurred on account of sanitation and conservancy purposes at Alooakhooa Fair.

Salary of municipal coolies employed a	CONSERVANC	τ. 		***	40	As. 8	f. 0 0
Ditto of mehters ditto Ditto of a duffadar to guide the mehter Travelling allowance of conservancy d	rs		170	ide	30	8	0 0
Halting allowance of ditto					102		0
	SANITATION				20	9	0
Price of medicine		•••	***	***	*30	0	0
Travelling allowance of native doctor		***			* 7	4	0
Halting allowance of ditto					57	7	о,
			Total		159	11	0

^{*} The accounts being with the native doctor on leave, these figures are given in accordance with the distance travelled and the days halted by the conservancy darogal.

Me	teo	role	087	al T	weg	гарш				1	WIND.	No series	-		January	
OTATIONS.	Dat	e, H	lour.	Barome reduced 32°.	to re	arometer duced to ea-level.	Dry.	Wet.	Humi dity Sa =100	d.	Direction.	Veloci	100	ain.	Clouds.	Weather initials.
CALCUTTA.	Jan 22: 23: 24: 25: 26: 27: 28:	nd rd th th	10 16 10 16 10 16 10 16 10 16 10 16 10 16	30·03 29·93 30·00 29·93 30·00 29·93 30·13 30·00 30·12 29·93 30·12 29·93	7 5 9 4 7 7 12 13 19 14 19 19 19	30°042 29°936 30°954 29°950 30°073 29°965 30°081 29°941 30°138 30°032 30°161 30°014 30°131 29°985	68'0 75'2 70'5 78'0 72'0 72'0 72'4 80'5 70'7 75'5 69'0 75'0 75'0	61 59 57 57 56	8 44 9 59 9 46 5 64 9 42 1 80 7 47 7 57 8 31 6 44 9 9 9 9 9 9 9 9 9 9 9 9 9 9	7 7 7 7 7 6 6	W by N W W S W by S W S W S W S W S W S W S W S W S W S					b b b b b b b b b b b b b b
SAUGOR-ISLAND.	21 2 2 2 2	2nd 3rd 4th 5th 6th 7th	10 16 10 16 10 16 10 16 10 16 10 16 10 16		37 78 55 77 72 72 960 21 900 48 919 131	30·047 29·943 30·084 29·961 30·083 29·978 30·078 29·966 30·127 30·006 30·154 30·036 30·137 29·963	71 78 72 79 73 78 76 70 72 80 70 78 72 79	66 69 68 72 72 73 73 66 61 65 65	88	5 30 30 30 30 30 30 30 30 30 30 30 30 30	N W S W W S W W N W S S W S S W S S W N N W N E N N W N W S W	4 3 10 3 12 10 11 10 13 6 7	2* 9* 2* 6* 2* 7* 7*		C	5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Сиптаволе.		22nd 23rd 24th 25th 25th 27th 28th	100 166 100 166 160 160 160 160 160 160	29 29 30 30 30 29 30 30 30 30 30 30 30 30 30 30 30 30 30	925 807 975 823 012 853 995 754 025 933 027 879 013	30·037 29 919 30·089 29·935 30·125 29·965 30·109 29·866 30·139 30·045 30·141 29·991 30·127	7: 7: 7: 7: 7:	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	7 7 7 8 7 9	62 50 75 57 67 68 76 61 71 61 45 36 52	WSW E WSW NE WSW NSW NNE WSW NNE WSW NE WSW	88	·2* ·0* ·4* ·3* ·0* ·5* ·7·7* ·5* ·5* ·5* ·5* ·5* ·5* ·5* ·5* ·5* ·5			b, m b b, m b, m b, m b, m b, m b, m b,
	MADEAS	22nd 23rd 24th 25th 26th 27th	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 20 30 6 20 6 6 20 6 6 20 6 6 20 6 6 20 6 6 20 6 6 6 20 6 6 6 20 6 6 6 6	0.047 0.938 0.067 0.956 0.063 0.925 0.048 0.093 0.093 0.093 0.093 0.106 0.106	30·07; 29·96; 30·09; 20·98; 30·07; 29·95; 30·07; 29·96; 30·12; 30·02; 30·13; 30·02;	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2 0 0 0 7 1 1 0 0 8 8 8 8 8	71 70 68 68 68 68 69 70 70 72 71 73 71	65 51 51 60 51 58 58 73 62 56	N by W N by E N N E S W N W N W N N W N W N W N W N W N W N W		4* 10* 8* 8* 7* 12* 14* 14* 12* 9* 13*			b c b c b c b c b c b c b c b c b c b c
	CULTACK.	22nd 23rd 24tl 25tl 26tl 27tl	i i	16 10 16 10 16 10 16 10 16 10	9.970 9.839 9.993 9.881 10.015 29.879 36.020 29.863 80.057 29.921 30.062 29.939	29 93 30 07 29 99 5 30 11 9 29 9 1 30 1 3 29 9 7 30 1 1 30 0 2 30 1	222 777 64 000 682 004 446 41 004	70 77 69 77 68 77 69 81 70 80 73 77	60 61 63 63 64 64 63 63 63 63 64 66 65	52 34 70 41 79 45 70 31 65 37 49	WNVWNNWNNWNNWNNEWSWSWNNWNNNWNNNWNNNNNNNNNN	V 7 V V				Fair Fair Fair Fair Fair Fair Fair Fair
	AKTAB.	22r 23r 24t 25t 26t 27	d h h h h h h h h h h h h	10 10 10 10 10 16 10 16 10 16 10 16 10 16 10	29 97: 99-91: 30-03: 29-91: 80-05: 29-93: 30-05: 29-93: 30-08: 29-95: 30-08: 30-08: 30-08: 30-08: 30-08:	9 29°6 5 30°6 9 20°1 7 30°6 3 29°1 66 29°1 83 30°6 97 30°7 53 29°	034 051 034 073 048 073 051	71 77 71 77 70 79 70 78 68 78 71 79 65	67 70 68 71 67 71 67 70 64 76 66 60 59 85	80 68 85 78 84 65 84 65 79 90 75 58 88	SEWNESSWNEEWSNWSNWSNWSNWSNWSNWSNWSNWSNWSNWSNWSNWSNW	N .	1 1 1 1 1 1 1 1 1 2 1 2 1 2		K K C	b b b

[·] Velocity of wind in miles per hour.

The 28th January 1871.

Weekly Report of Rainfall compiled at the Meteorological Reporter's Office.

DIVISIOSS.	Stati	ons.	Rainfall from 9th to 15th Jan. 1871.	Rainfall from 16th to 22nd Jan, 1871.	RAT	N PROM 1ST NUARY 1871.	REMARKS.
DIVIE			Rainfa 9th Jan.	Rainfa 16th Jan.	Rain.	Up to late.	
CULTAGE.	Cuttack { Teleg Jail. False Point Jagipore Kendraparah Jugutsingpore Sumbulpore Balasore Bhuddruck Pooree Khoordah		Nil ditto ditto ditto ditto ditto ditto ditto ditto nil ditto	Nil ditto Not received ditto ditto ditto ditto Nil Not received Nil Not received	ditto ditto ditto Nil ditto ditto	22nd Jan. 1871 ditto. 15th Jan. 1871 8th Jau. 1871 ditto. ditto. 22nd Jan. 1871 15th Jan. 1871 15th Jan. 1871	Not received 2nd to 8th Jan.
CHOTA NAGPORE.	Hazareebaugh Burhee Pachamba Ranchee Palamow Purulia Gobindpore Chyebassa		ditto ditto ditto ditto Mot received Nil ditto Not received Nil ditto	Nil 0.01 Not received ditto ditto Nil	ditto 0°01 Nil ditto ditto ditto	22nd Jan. 1871 ditto. 15th Jan. 1871 8th Jan. 1871 15th Jan. 1871 22nd Jan. 1871 22nd Jan. 1871	Not received 1st January.
PATEAL	Patna Behar Barh Dinapore Gya Sherghotty Nowadah Arungabad Chumparun Chuprah Sewan Mozufferpore Durbhangah Seetamaree Tajpore Arrah Buxar Sasseram Bhubhooah		ditto ditto ditto ditto ditto ditto ditto ditto Not received ditto ditto Not received ditto	ditto ditto ditto Nil	ditto ditto ditto Nil ditto ditto ditto	ditto. 15th Jan. 1871 ditto. 22nd Jan. 1871 15th Jan. 1871 ditto. ditto. 23nd Jan. 1871 ditto. 23nd Jan. 1871 ditto. 22nd Jan. 1871 ditto. 22nd Jan. 1871 15th Jan. 1871. 22nd Jan. 1871. ditto. ditto. ditto.	
BHAUGULPORE.	Benares Bhaugulpore Mudheypoorab Banka Monghyr Jamooie Begoosari Deoghur Purneah		Nil ditto ditto ditto Not received Nil ditto Nil ditto	ditto Nil ditto Not received Nil Not received ditto Nil ditto	Nil ditto ditto Nil ditto 	15th Jan. 1871, 22nd Jan. 1871 ditto. 22nd Jan. 1871, 15th Jan. 1871, 22nd Jan. 1871, ditto.	Not received 2nd to 8th Jan. (Not received 1st to 8th Jan.
Валенания.	Rampore Beauler Nattore Bograh Dinagepore Maldah Berhampore Pubna Coomercolly Serajgunge Rungpore Titalya		ditto ditto ditto ditto ditto ditto ditto Not received	ditto ditto ditto ditto ditto ditto ditto ditto ditto ditto ditto	ditto ditto ditto ditto ditto ditto ditto ditto	ditto. ditto. ditto. ditto. ditto. ditto. ditto. ditto. 22nd Jan. 1871	Not received 2nd to 8th Jan. Not received 2nd to 8th Jan.
Вовржая.	Burdwan Cutwa Culna Bood-Bood Bancoorah Raneegunge Sooree Hooghly Howrah Midnapore Contai Gurbetta Tumlook		ditto ditto Not received Nil ditto Not received	Nil Not received Nil Not received Nil ditto Not received Nil ditto	Nil ditto di	ditto. ditto. 15th Jan. 1871. 22nd Jan. 1871 15th Jan. 1871 22nd Jan. 1871. ditto. 15th Jan. 1871. 22nd Jan. 1871. ditto ditto ditto ditto ditto, 15th Jan. 1871. 8th Jan. 1871. 15th Jan. 1871.	Not received 3th to 15th Jan. Not received 3nd to 8th Jan. Not received 1st January.
Passidenor.	Kishnaghur Bongong Ranaghat Meharpore Choadangah Kooshteah Jessore Saugor Island Calcutta Aliptore { Jail Barrackpore Dum Dum Baraset Satkherah Busseerhaut Diamond Harbout Barripore		ditto ditto ditto ditto Not received Nil ditto	Nil ditto ditto ditto Not received ditto Nil ditto	ditto	22nd Jan 1871. ditto. ditto. 15th Jan. 1871. 22nd Jan. 1871. ditto.	

	Stations.		Rainfa from 9th to 15th Jan. 1871.	Bainfall from 16th to 22nd Jan. 1871.		V WROM 1st SUARY 1871.	Remarks.
	Stations.	100	Rainfa 9th Jan.	Rainfa 16th Jan.	Rain.	Up to date.	
80-1		1	Control Services		1000	45 TURNOR - 12 09	
0	Dacca { Telegraph Office		Not received	Not received		34	
14	Dacca I Jail		Nil	ditto	Nil	15th Jan. 1871.	
11	Burrisaul	***	ditto	Nil	ditto	22nd Jan. 1871.	
11	Dowlat Khan		ditto	ditto	ditto	ditto.	
1.	Perozepore		ditto	ditto	ditto	ditto.	
П	Madaripore		ditto	ditto	ditto	ditto.	
43	Furreedpore		ditto	ditto	ditto	ditto.	
3	Mymensing	3.1	ditto	ditto	ditto	ditto.	
33	Jamalpore		ditto	ditto	ditto	ditto.	
1	Atteab		Not received	Not received			
1	Kishorgunge		Nil	ditto	Nil	15th Jan. 1871.	THE RESERVE OF THE PERSON OF T
	Sylhet	- 1	ditto	Nil	ditto	22nd Jan. 1871.	
H	Cachar		ditto	Not received	ditto	15th Jan. 1871.	
CHILIAGOSO.	Aenakhall Hylakandy		Not received	ditto			
	(Telegraph	Office	Nil	Nil	Nil	22nd Jan. 1871.	
	Chittagong Jail		ditto	ditto	ditto	ditto-	
	Cox's Basar		Not received	Not received	***		
	Rangamatea Hill		ditto	ditto	Nil	8th Jan. 1871.	
	Noakhally		Nil	Nil	ditto	22nd Jan. 1871	Not received 2nd to 8th Jan.
1			ditto	ditto	ditto	ditto	Ditto.
	Tipperah Brahmanbariah		ditto	Not received	ditto	15th Jan. 1871.	
	Akyab		ditto	Nil	ditto	22nd Jan. 1871.	
	Buxa	1	ditto	ditto	ditto	ditto.	
	Gowalparan	***	ditto	Not received	ditto	15th Jan. 1871.	
	Dhobree	***	Not received	ditto	· Car		
	Toors (Gara Hills)		Nil	ditto	Nil	15th Jan. 1871.	
	(Telegraph	Office	Not received	ditto		2000	
-	Darjeeling { Telegraph Jail		ditto	ditto	***	100	and the second second
1	Rungbee		ditto	ditto			
1	Terni	100	ditto	ditto	***	1000	Not recorded.
	Falacottah		Nil	ditto	Nil	15th Jan. 1871.	
	Julpigoorie	1	ditto	Nil	ditto	22nd Jan. 1871.	A STATE OF THE STA
1	Boda	***	ditto	ditto	ditto	ditto.	
,	Tezpore		ditto	Not received	ditto	15th Jan. 1871.	
	Nowgong		Not received	ditto	***		
1	Burpettah	141	ditto	ditto	100	141	No. 1 To The Control of the Control
	Gownatty		Nil	ditto	Nil	15th Jan. 1871.	
. 1	Seebsaugor		ditto	ditto	0.02	ditto.	
1	Golaghat		Not received	ditto	Nil	8th Jan. 1871.	
1	Nazeerah	119	Nil	ditto	0.03	15th Jan. 1871.	
1	Debrooghur	***	Not received	ditto	Nil	8th Jan. 1871	Not received 1st January.
1	Suddya	***	ditto	ditto	ditto	ditto.	
	Shillong	***	Nil	ditto	ditto	15th Jan. 1871.	T
1	Jowai		ditto	ditto	ditto	ditto.	1 1 1
				ditto	ditto	8th Jan. 1871.	

HENRY F. BLANFORD.

Meteorological Reporter to the Govt. of Bengal.

CALCUTTA,
The 28th January 1871.

Abstract of the Results of the Hourly Meteorological Observations taken at the Surveyor-General's Office, Calcutta, in the month of December 1870.

LATITUDE 22° S3′ 1" north, longitude 88° 20′ 34 standard barometer above the sea level, 18·11 feet. MONTHLY RESU		Height of t	he ciste	rn of the
MONTHELINESC	TITO.			Inches.
				30.026
Mean height of the barometer for the month	15.1		20.00	30.184
More beight of the barometer occurred at 10 A.M. on the	ie 15th		۴.,	29.789
Min height of the barometer occurred at 3 P.M. on the	2 21st		1000	0.395
Extreme range of the barometer during the month	***			30.101
Mean of the daily max, pressures	100	L	****	29.969
Ditto ditto min. ditto	***	***		0.132
Mean daily range of the barometer during the month		***	***	0.152
Mean nately range of				0
				66.5
Mean dry bulb thermometer for the month		**		80.1
Mor temperature occurred at 3 P.M. on the 3180	***			57.0
Min temperature occurred at 6 and 7 A.M. on the 20	th	*** *		23.1
Extreme range of the temperature during the month	***	***	1000	AND LOCATION OF STREET
Mean of the daily max. temperature	***	***	***	75.6
Ditto ditto min. ditto	***		***	59.1
Mean daily range of the temperature during the month	1			16.5
			PORT OF THE PROPERTY OF	60.6
Mean wet bulb thermometer for the month	emameter			5.9
Mean dry bulb thermometer above mean wet bulb ther	Шошовск			55.9
Computed mean dew-point for the month	w noint			10.6
Mean dry bulb thermometer above computed mean de	w-point		To District the	Inches.
			1	0.456
Mean elastic force of vapour for the month		Marie Till		1000
	e suvo e te		Tr	by grain.
				5.05
Mean weight of vapour for the month	reation	e place in a	8	2:14
Additional weight of vapour required for complete sat	mation h	ing unity	100	0.70
Mean degree of humidity for the month, complete satu	Tracton be	ing unity	ALCOHOL:	9
Mean max. solar radiation thermometer for the month			.40	130.2
				Inches.
				Nil
Rained no day,-max. fall of rain during 24 hours	44.6			Nil
Total amount of rain during the month Total amount of rain indicated by the gauge* attached	d to the	anemometer	during	
the month ,		The state of the s	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	Programme and the second programme and the sec
Prevailing direction of the wind	***	WNW,	W by N	& W
* Height 70 feet 10 inches a	bove ground			
- Height to jeet to motes a				

Gopeenauth Sen,
In charge of the Observatory

The 28th January 1871.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY-MAIN LINE.

Approximate Return of Traffic for week ended 14th January 1871, on 1,279; miles open.

		COACHING TRAPP	10.	MRRORAND	Total Traffic Receipts.		
	Number of passengers.	Coaching re	ceipts.	Weight carried.	Recei		
Total traffic for the week Or per mile of railway For previous 1 week of half year	94,8791	Rs. As. P. 1,42,103 6 4 111 1 0 1,42,058 10 2	£ s. d. 13,026 2 10 10 3 7 13,022 0 10	Mds. Srs. 630,037 0 566,568 20	Rs. As. P. 3,53,757 8 3 276 7 8 3,71,306 6 3	£ s. d. 52,427 15 6 25 6 11 34,036 8 7	£ 2. 45,453 18 35 10 47,058 9
Total for 2 weeks	182,7271	2,84,163 0 6	26,048 8 8	11,96,605 20	7,25,664 0 6	66,464 4 1	92,519 7
COMPARISON. Total for corresponding week of previous year Per mile of railway, corresponding week of previous year Total to corresponding date of previous year	135,2594	3,11,969 10 7 275 13 4 5,94,007 15 6	28,597 4 5 25 5 9 54,450 14 8		4,36,524 3 10 385 15 5 8,92,176 6 2	40,014 14 5 35 7 7 81,782 16 8	68,611 18 60 13 136,233 11

EAST INDIAN RAILWAY-JUBBULPORE LINE.

Approximate Return of Traffic for week ended 14th January 1871, on 223 miles open.

		At the State of the Contract o	The same of the sa				100
Total traffic for the week Or per mile of railway For previous 1 week of half year	7,1901 3,823	Rs. As. P. *24,247 15 8 108 11 9 12,844 4 9	£ s. d. 2,223 14 4 9 10 4 1,177 7 11	Mds. 8rs. 62,349 10 47,049 0	Rs. As. P. 18,735 0 6 84 0 3 15,224 6 0	£ s. d. 1,717 7 7 7 14 0 1,395 11 4	£. e. d. 3,940 1 11 17 13 4 2,572 19 3
Total for 2 weeks	11,013}	37,092 2 5	3,400 2 3	109,398 10	33,959 6 6	3,112 18 11	6,513 1 \$
Companion. Total for corresponding week of previous year. Per mile of railway, corresponding week of previous year. Total to corresponding date of previous year.	10,607}	48,063 9 1 215 8 6 67,241 4 5	4,405 16 7 19 15 2 6,163 15 9	45,007 10 71,055 20	15,750 15 10 70 10 1 22,846 4 7	1,443 16 7 6 9 6 2,094 4 10	5,849 13 5 26 4 8 8,258 0 7

^{*} Rs. 6,531-1-5 added, being short included in last week.

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for week ended 14th January 1871, on 1563 miles open.

Total traffic for the week Or per mile of railway For previous 1 week of half	26,9991 172 27,8871	Rs. As. P. 14,248 10 0 91 0 9 16,163 10 9	£ s. d. 1,306 · 2 · 6 8 · 6 · 11 1,481 · 13 · 5	Mds. Srs. 68,868 29 440 0 105,632 35	Rs. As. P. 16,520 1 10 105 8 11 25,027 3 10	£ s. d. 1,514 6 10 9 13 6 2,294 3 3	£ s. d. 2,820 9 4 18 0 5 3,775 16 8
Total for 2 weeks	54,887	30,412 4 9	2,787 15 11	174,501 24	41,547 5 8	3,808 10 1	6,596 6 0
COMPARISON. Total for corresponding week of previous year Per mile of railway, corresponding week of previous year Total to corresponding date of previous year	35,092\frac{1}{2} \$10 59,001	27,072 13 8 239 0 11 40,798 4 28	2,481 15 7 21 18 3 3,739 16 10	114,224 21 1,000 0 183,088 241	17,611 7 11 155 8 2 27,825 10 10	1,614 7 9 14 5 1 2,504 17 1	4,096 1 4 56 3 4 6,244 13 11

CALCUTTA AND SOUTH-EASTERN STATE RAILWAY.

Approximate Return of Traffic for week ended 14th January 1871, on 28 miles open.

Total traffic for the week Or per mile of railway For provious 15 weeks of half year	10,702 385 84,6761	Rs. As. P. 1,467 3 0 53 6 4 13,740 8 6	£ s. d. 146 14 5 5 4 9 1,374 1 0	Mds, Srs. 9,829 0 354 0 166,479 28	Rs. As. P. 318 15 3 11 6 3 5,432 0 6	£ s. d 31 17 11 1 2 9 543 4 1	178 12 4 6 7 6 1,917 5 1
Total for 16 weeks	95,468}	15,207 11 6	1,520 15 5	176,308 28	3,750 15 9	575 2 0	2,095 17 5
COMPARISON. Total for corresponding week of previous year Per mile of railway, corresponding week of previous year Total to corresponding date of previous year	7,017} 283 68,676}	1,144 7 0 40 14 0 2,908 10 9	104 18 1 3 14 11 253 4 0	11,990 2 428 0 150,158 24	872 15 9 13 5 2 5,263 11 11	34 3 10 1 4 5 482 10 3	150 1 11 4 19 4 1,665 14 3

No. 6



of 1871

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, FEBRUARY 8, 1871.

OFFICIAL PAPERS.

Non-Subscribers to the Gazette may receive the Supplement, separately, on payment of six Rupees per annum if delivered in Calcutta, or twelve Rupees if sent by Post.

Proceedings of the Council of the Lieutenant-Governor of Bengal for the purpose of making Laws and Regulations.

Saturday, 4th February, 1871.

Present:

HIS HONOR THE LIEUTENANT-GOVERNOR OF BENGAL, presiding.

THE HON'BLE ASHLEY EDEN,
A. R. THOMPSON, ESQ.,
V. H. Schalch, ESQ.,
MOULVY ABDOOL LUTEEF KHAN BAHADOOR,

T. M. Robinson, Esq.,
Baboo Jotendro Mohun Tagore,
AND
Baboo Digumber Mitter.

RECOVERY OF LAND REVENUE IN ASSAM.

Mr. Rivers Thompson moved that the Bill to provide for the recovery of land revenue and the mutation of names in Assam be read in Council. He said that the Bill had been prepared from the rules which now regulated the procedure for the recovery of the land assessment in Assam, and they had been amended and revised by the Board of Revenue. The Bill provides that ample time shall be given to defaulters for the payment of their dues before procedure was taken against them on account of their default. If after the month's time allowed for paying in arrears the money had not been paid, measures could be taken by attachment and sale of the defaulter's property, movable and immovable, and then, if necessary, by the arrest and imprisonment of the defaulter for a period not exceeding fourteen days. Special provision had been made for the case of a fraudulent concealment of property, and there was also a section which provided that nothing in the Act should apply to suits between lakberajdars and other private land-owners and their tenants. The Bill simply provided for cases where Government ryots owing Government revenue were in the position of defaulters.

Certain sections in the Bill provided for the registration of holdings in cases of transfer either by sale or death, or from any other cause. This provision was intended to provide against cases of not unfrequent occurrence of persons transferring their rights to others who had no right to hold them.

There were a few sections at the end of the Bill relating to remissions of revenue and the punishment of mouzadars for negligence of duty or disobedience of orders, which it was deemed advisable to incorporate in the measure.

These rules were now in operation in Assam; and the fact was, as he had said before, that cases of default very seldem occurred, and recourse to any form of penal procedure very seldem became necessary. But as the procedure was connected with punishment, the imposition of fines and imprisonment, it had been thought advisable that they should be enforced under the authority of an Act of the Legislature.

BABOO JOTENDRO MOHUN TAGORE said he begged to draw attention to certain sections of the Bill which seemed to enunciate a principle which might be exercised very harshly towards defaulters. The Bill proposed to give a power to arrest defaulters after both their real and pesonal property had been sold for arrears of revenue, and then to incarcerate them for a period

of fourteen days even where there was no fraudulent concealment of property. This, he thought, was too harsh a measure : after a man was sold out of his hearth and home, it was very hard to incarcerate him for fourteen days. It was true that by Act VIII, of 1869, of this Council certain powers were given in cases where ryots became defaulters: but if a ryot, by a verified application, pleaded insolvency, he was at once let off. Under this Bill, however, the ryot would have no means of getting off before the fourteenth day of his incarceration.

Mr. Schalch said, after what the hon'ble member opposite had observed, he would beg leave to state that, under the present law for the recovery of rents, there was given a power to arrest a defaulter previously to the attachment of his property, or subsequently. In the present case the concession was made that no arrest should be made until it was certified that the property, both movable and immovable, was insufficient to meet the demand. He was not present during the passing of the new rent law, having been in England at the time, and he was not therefore quite conversant with its provisions; but on looking over it he did not see any provision necessitating the immediate release of a defaulter on proof of his insolvency. No doubt if insolvency was proved, the fact would be taken into consideration, and he had no reason to suppose that greater harshness would be exercised towards defaulters in the recovery of

revenue in Assam than elsewhere.

BABOO JOTENDRO MOHUN TAGORE said he would take leave to explain what he had meant as to the rule relating to the insolvency of a defaulter. The rule to which he referred was not in Act VIII. of 1869 of this Council; but it was a rule that he believed would be enforced in accordance with the procedure of Act VIII. of 1859, the Civil Procedure Code. The Bengal Act VIII. of 1869 enacted that what was not provided for in that procedure should be regulated according to the procedure prescribed by Act VIII. of 1859, and under that provision he thought a defaulter might be released on proof of his insolvency. Then as to the provision of the rent law giving power to arrest a defaulter before attachment of his property, he would submit that that was different from what the present Bill contemplated. The object of that provision evidently was to apply an additional pressure for payment on one who was possessed of property, whereas this Bill proposed to put a man in jail after reducing him to a state of absolute pauperism.

Mr. RIVERS THOMPSON said that the observations that had been made would be duly considered by the select committee, to whom the Bill would be referred, when that particular section came under their consideration. In a province like Assam, where they had to deal with a large body of ryots, each paying a small amount, he thought it would not be advisable to introduce all the technicalities of a procedure applicable to a more advanced people, or to a complicated system of land tenure. If a ryot was in such a position that every thing of his had to be sold, the Government officers, in their own interests and in the interests of the public, were not likely to incarcerate him for fourteen days, because they would have to incur the expense of maintaining him in prison; and he (Mr. Thompson) thought we might safely leave a matter of this kind to the discretion of the local authorities. As he had said before, if there was really any thing harsh in the procedure proposed, he had no doubt the subject would

meet with due consideration at the hands of the select committee.

The motion was then agreed to, and the Bill referred to a select committee consisting of Mr. Schalch, Baboo Digumber Mitter, and the mover Mr. Thompson, with instructions to report within six weeks.

RECOVERY OF FINES.

MOULYN ABROOL LUTEEF moved that the Bill to facilitate the recovery of certain fines imposed in Bengal be read in Council. In doing so he said he begged to state that as he has already explained the objects and reasons for the introduction of the measure, he would not detain the Council with any further observations on this occasion, with the exception of one or two words. In the first place, he thought that the same principle under which the provisions of sections 63 to 70 of the Indian Penal Code have been extended to all fines imposed under the authority of Acts passed by this Council after the 30th of May 1867, as provided for in Act V. of 1867, was equally applicable to fines imposed under the authority of Acts passed prior to that date; and he could not understand why there should be a difference between the two. What is good and necessary in the one case should undoubtedly be so in the other. And he did not see any objection to the provisions of the said sections of the Penal Code being made applicable to all fines imposed by Acts of this Council previously passed.

In the second place, he found that there had been great many discussions at the meetings of both the justices of the peace for the town of Calcutta and the municipal commissioners for the suburbs as to the total failure of the Act passed by this Council for the better regulation of slaughter-houses, and both those corporations have resolved upon addressing the Government with a view to an amendment of the said Act, so as to enable the authorities to enforce its provisions, which they at present were utterly unable to do. He was, however, of opinion that if the Bill, which he begged to propose, was passed, it would effectually remedy the defect

in the Act in question, and there would be no necessity whatever for amending it.

With these remarks he begged to move that the Bill be read in Council. Baroo Digumber Mitter said that the object of the present measure appeared to be to make fines, which under the existing law can only be enforced by sale of the movable property of the offender, commutable to imprisonment if the fine be not realized by the distress. He did not question that some of the existing provisions might have been found defective or

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might have failed in their object. If those laws required amendment, let them by all means be amended in due form after sufficient publication. But he respectfully objected to the punitive provisions of one Act being set aside, altered, or modified, without due regard being had to the nature of the offences which they were intended to meet. If such a course were adopted, there was no knowing what serious alterations might be made in the existing body of law without the public being at all aware of it.

MOULVY ABDOOL LUTEEF said he thought that if the Bill was referred to a select committee they would be in a position to consult all the Acts which would be affected by this Bill, and to see if there was anything in any of them which would not justify the extension of this Act. He thought that was a matter of detail which could very easily

be done by the committee.

The motion was then agreed to, and the Bill referred to a select committees consisting of the Advocate-General, the Hon'ble Mr. Eden, and the mover Moulvy Abdool Luteef, with instructions to report within a month.

The Council was adjourned to Saturday, the 11th instant.

Results of the Meteorological Observations taken at the Surveyor-General's Office, Calcutta, from 22nd to 31st January 1871.

	7	ter.	Тив	EMOMI	RTER.			dew-	humidity.	Win	D.	A		
Month.	Date.	Mean reduced barometer.	Highest reading.	Lowest reading.	Max. solar radi- ation.	Mean dry bulb.	Mean wet bulb.	Computed mean point.	Mean degree of hum	Prevailing direction.	Max. pressure. Daily velocity.		Rain.	GENERAL REMARKS.
5.5		Inches.		0	0	-0	0	0			1b	Miles.	In.	
Jan	22nd	29-959	76.6	60.0	134.0	66.9	60.4	55:2	0.68	W by N & W	***	105.6		Clear. Slightly foggy from 8 to 11 P.M.
1.44	23rd	1989	78'8	60.2	134.5	68.7	61.8	56.3	.66	WSW&W	***	77:3	***	Clear.
	23th	984	80.3	62.4	1380	70.0	63.6	58.5	.68	W&WSW	***	99.7	***	Clear.
	25th	.977	81.9	63.2	136-2	71.3	69.8	61.4	.72	WSW,SW &SSW	***	129.3	***	Clear.
	26th	30.037	76.9	62.2	134.0	69.3	-61.9	56.0	.65	W N W & variable.	***	146.0	***	Chiefly clear. Foggy from 1 to 4 A.M.
100	27th	0.57	75:0	57.5	133.2	65.6	56.2	49.2	*58	W N W & W	0.8	126.2		Clear. Slightly foggy from 7 to 11 P.M.
	28th	-032	74.7	55.5	133.0	64.5	56 *8	50.6	-63	W & W by S	•••	96.5		Clear. Slightly fogg at midnight, from 5 to 7 A.M., and 9 to 11 P.M.
37	29th	*011	77.3	58.4	131.2	66'8	59.6	53.8	*65	W by 8 & W		109.0	***	Chiefly clear.
and the	30th	'013	79.6	61.0	131.5	69.4	63.0	57.9	.68	W by S & W	***	104.9	***	Chiefly clear.
	31st	.029	81.0	61.6	136.5	70.9	64.9	60.1	•70	W by S & W	***	78.1	•••	from 7 to 9 P.M.

The mean barometer, as likewise the dry and wet bulb thermometer means, are derived from the twenty-four hourly observations made during the day.

The dew-point is computed with the Greenwich constants.—The figures in column 10 represent the humidity of the air, the complete saturation of which being taken at unity.—The receiver of the lower rain gauge is 1½ feet, and that of the anemometer 70 feet 10 inches, above the level of the ground.—The velocity of wind, as indicated by Robinson's anemometer, is registered from noon to noon.

		9
The extreme variation of temperature during the past ten days		26.0
The max, temperature during the past ten days		81.5
The max, temperature during the corresponding period of the past year	***	78.5
The mean humidity during the past ten days		0.66
The mean humidity during the corresponding period of the past year		0.65
The inchi addition of the control of		Inches.
(by lower rain gauge		Nil
The total fall of rain from 22nd to 31st by anemometer gauge		Nil
Ditto ditto, average of 17 previous years		0.29
Ditto between the 1st January and the 31st January	***	Nil
Ditto ditto ditto, average of 17 years	•••	0.46

GOPEENAUTH SEN, In charge of the Observatory.

Meteorological Telegraphic Report for the period 29th January to 4th February 1871.

					Тивимо	MRTEL.		Wini			*	
STATIONS.	Date.	Hour.	Barometer reduced to 32°.	Barometer reduced to sea-level.	Dry.	Wet.	Humidity Sat.	Direction,	Velocity.	Rain.	. Clouds.	Weather initials.
CALCUSTA.	Jan. 29th 30th 31st Feb. 1st 2nd 8rd 4th	10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16	30°099 29°944 30°099 29°962 30°104 29°989 30°116 29°903 30°037 29°887 29°840 29°994 29°837	30°118 29°962 30°118 29°980 30°123 30°07 30°123 30°07 30°135 29°981 20°965 29°986 29°858 30°013 29°858	68 1 76 0 70 0 78 0 72 7 80 5 70 0 81 0 73 7 82 5 74 0 83 5 74 0 83 5	58'0 68'5 66'2 66'0 69'0 68'5 66'5 63'5 67'0 65'4 70'0 62'0 62'0	51 46 75 49 80 51 82 32 67 35 81 32 48 32	W by S W W by S W W by S W W N W W by S W S W S S W W W S S W W S S W			CS	· b
SAUGOR ISLAND.	Jan. 29th 80th 81st Februst 2nd 3rd 4th	10 16 10 16 10 16 10 16 10 16 10 16 10 16	30·103 29·974 30·104 29·985 30·111 3·007 30·182 29·979 30·050 29·917 20·982 29·859 30·010 29·841	30°108 20°980 30°110 29°991 30°117 30°013 30°138 29°985 30°056 29°923 29°888 29°865 30°016 29°847	71 78 75 78 76 79 74 83 74 79 75 85 77 84	69 66 72 72 74 74 71 74 73 72 74 72 66 68	89 49 85 73 90 77 85 66 95 69 96 50 53 40	N SSW WSW SSW WNW SW SSW SSE WNW NW NNW S	6:1** 7:7** 4:6** 8:6** 4:3** 10:3** 6:0** 8:2** 4:0** 6:0** 6:0** 7:0** 5:2**		C	b, m b, m b b b b b b b b b b b b b b b b b b b
CHITTAGONG.	Jan. 29th 30th 31st Feb. 1st 2nd 3rd 4th	10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16	29:914 29:954 30:013 29:889 30:037 29:843 29:925 29:814 29:901 20:814 29:902 29:757	30·027 30·067 30·127 30·002 30·141 29·954 30·038 29·926 30·015 29·925 30·014 29·869	76 71 76 71 77 72 89 74 80 72 83 80 80	66 66 66 67 67 69 66 68 68 72 74	56 75 56 75 68 75 48 63 51 71 42 66 74	WSW NE WSW ESE WSW E W ENE SW SSW SSW	7-6m 4-2m 7-1m 4-2m 7-1m 4-7m 8-2m 4-5m 9-2m 4-5m 9-2m 4-1m 4-1m 3-8m 4-8m		c, cs	b, m
Madras,	Jan. 28th 29th 30th 31st Feb. 1st 2nd 3rd	10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16	30°110 29°994 30°103 29°974 30°087 29°969 30°102 29°987 30°111 29°971 30°072 29°947 30°043 29°937	30·140 30·024 30·133 30·004 30·117 29·999 30·132 30·017 30·101 30·102 29·977 30·073 29·967	81 80 80 81 80 80 80 80 82 82 82 82 82 82 83	69 68 67 69 69 69 68 68 70 70 70 72 71	51 51 47 51 54 51 52 52 52 52 52 52 52	S W N N W N N W E N E E N E E N E E N E N N E N N W N N W N W by N N E	6* 9* 9* 60 6* 6* 6* 6* 11* 8* 10* 6*			b b b b b b b b b b b b b b b b b b b
CULTACK.	Jan. 28th 22th 30th 31st Feb. 1st 2nd 3rd	10 18 10 16 10 16 10 16 10 16 10 16 10 16 10 16	30 057 29 893 30 030 29 889 30 043 29 883 30 037 29 908 30 082 29 908 29 908 29 908 29 904 29 776	30·141 29·976 30·114 29·972 30·127 29·986 30·121 29·971 30·166 29·991 29·991 29·991 29·991 29·991 29·991	70 78 69 78 69 78 69 83 71 80 71 83 77 89	66 62 65 65 65 67 67 69 68 67 66 66	79 35 79 35 79 46 89 43 89 51 80 38 53 32	WSW NW NW NNW NNW NN W W NN W W W NN W W NN W				Fair,
ARTAB.	Jan. 20th 30th 31st Feb. 1st 2nd 3rd 4th	10 16 10 16 10 16 10 16 10 16 10 16 10 16 10 16	30°088 29°964 30°108 20°967 30°095 20°981 30°075 20°920 30°007 20°849 20°987 20°987 20°987 20°9868	30°104 29°979 30°124 29°983 30°111 29°996 30°091 29°944 30°023 29°864 30°003 29°68 30°011 29°871	66 75 66 74 67 71 77 70 77 70 79 71 78	62 64 62 68 63 69 67 70 65 64 70 65 71	78 51 78 63 79 68 80 68 75 53 70 61 70 69	N W E N W E N W N W N W N N W E N E W N N W E W N N W E W N N N W E W N N N W E W N N W E W N N W E W N N W E W N N W E W N N W E W N N W E W E	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	 c c c c c c	\$ b b m b b b b b b b b b b b b b b b b

[·] Velocity of wind in miles per hour.

Weekly Report of Rainfall compiled at the Meteorological Reporter's Office.

Divisions.	Statio	ng.		Rainfall from 16th to 22nd Jan. 1871.	Il from to 29th 1871.	RAIN PROM 187 JANUARY 1871.		Remauks.
				Rainfa 16th Jan.	Rainfall fi 23rd to 2 Jan. 1871	Rain.	Up to date.	
. (Cuttack { Telegrand	aph O	ffice	Nil	Nil	Nil	29th Jan. 1871	
				ditto	Not received	ditto	ditto. 22nd Jan. 1871.	
. 1	False Point	***	***	ditto	ditto	ditto	ditto.	The second second second
CUTTACK.	Kendraparah	***	***	ditto	ditto	ditto	ditto.	
21	Jugutsingpore Sumbulpore	***	***	Not received	ditto ditto	ditto	ditto.	
5	Balasore	***	***	Nil	Nil	Nil	29th Jan. 1871.	
	Bhuddruck	***	***	Not received	Not received	ditto	15th Jan, 1871	
1	Khoordah	•		Nil Not received	Not received	ditto	39th Jan. 1871 15th Jan. 1871	
4 /	Hazareebaugh	***		Nil	Nil	ditto	29th Jan. 1871.	
1 0	Burhee	***	***	0.01	Not received	0.01	22nd Jan. 1871.	
5	Pachamba Ranchee	***	***	Nil Not received	Not received	Nil	29th Jan. 1871. 8th Jan. 1871	Not all the
34	Palamow			Nil	ditto	ditto	22nd Jan. 1871.	Not received 1st January.
1	Purulia	***	***	ditto	Nil	ditto	29th Jan. 1871.	
CHOIL NAGPORK	Gobindpore Chyebassa	***	***	Not received Nil	Not received Nil	Nil	29th Jan. 1871.	
r	Patna		***	0.02	ditto	0.02	ditto.	
1	Behar	***	***	Nil	Not received	Nil	22nd Jan. 1871.	44
1	Barh Dinapore	***		0.80 Nil	ditto Nil	0.80 Nil	ditto. 29th Jan. 1871.	
1	Gya	***		Not received	Not received	ditto	15th Jan. 1871.	
1	Sherghotty	***	***	ditto	ditto	NII.	29th Jan. 1871.	
1	Nowadah Arungabad	***		Nil ditto	Not received	Nil	22nd Jan. 1871.	
	Chumparun	***		ditto	ditto	ditto	ditto.	
11	Chuprah Sewan		***	Not received	Not received	ditto	29th Jan. 1871.	
	Mozufferpore	***		Nil	Nil	ditto	29th Jan. 1871.	
1	Durbhangah	***	***	0 05	Not received	0.02 Nil	22nd Jan. 1871. 29th Jan. 1871	*
1	Sectamarce Tajpore	***	***	Not received 0.01	Not received	0.01	22nd Jan. 1871.	Not received 16th to 22nd Jan.
	Arrah	***		Nil	ditto	Nil	ditto.	
1	Buxar Sasseram	***	***	Not received	Not received	ditto	29th Jan. 1871.	
i	Bhubhooah	***	•••	ditto	ditto	***	***	
	Benares	***		Nil	Nil	Nil	29th Jan. 1871.	
	Bhaugulpore Mudheypoorah			ditto	ditto	ditto	ditto.	
	Banka			Not received	Not received			
4	Monghyr Jamooie	***	***	Nil	Nil	Nil	29th Jan. 1871. 15th Jan. 1871	N
	Begoosari	***		Not received Nil	Not received Nil	ditto	29th Jan, 1871.	Not received 1st to 8th Jan.
	Deoghur Purneah			ditto ditto	Not received Nil	ditto	22nd Jan. 1871. 29th Jan. 1871.	
-			100				ditto.	
	Rampore Beauleal			ditto	Not received	ditto	22nd Jan. 1871.	
1	Bograh	***		ditto	Nil	ditto	29th Jan. 1871.	
1	Dinagepore Maldah	***	-	ditto	ditto	ditto	ditto-	
	Berhampore			ditto	ditto	ditto	ditto.	
	Jungipore Lalbagh	***		ditto	Not received	ditto	22nd Jan. 1871. 29th Jan. 1871	
	Pubna		***	ditto	Nil	ditto	ditto.	From 16th Jan.
1	Coomercolly	***		ditto	ditto	ditto	ditto.	
1	Serajgunge Rungpore	***		Not received ditto	Not received ditto	Nil	15th Jan. 1871.	
3	Titalya			0.01	Nil	0.01	29th Jan. 1871.	
	Burdwan Cutwa •	***		Nil	ditto	Nil	ditto.	
11	Culna	***		ditto	ditto	ditto	ditto	Not received 9th to 15th Jan.
1	Bood-Bood	***	**	ditto	ditto	ditto	ditto.	The state of the s
1	Bancoorah Rancegunge			ditto	ditto	ditto	ditto.	
1	Sooree		7.	ditto	ditto	ditto	ditto.	AND STREET
11	Hooghly Howrah	***	•••	ditto	ditto ditto	ditto	ditto.	
1	Midnapore •		***	ditto	ditto	ditto	ditto.	
	Contai	***	***	Not received	Not received	ditto	15th Jan. 1871.	
U	Gurbetta Tumleok			ditto	ditto	ditto	8th Jan. 1871. 15th Jan. 1871	Not received 1st Jan.
1	Kishnaghur			Nil	Nil	ditto	29th Jan. 1871.	Tive leveling the Date,
1	Bongong Ranaghat		***	ditto	Not received Nil	ditto	22nd Jan. 1871. 29th Jan. 1871.	
	Meharpore		***	Not received	Not received	ditto	15th Jan. 1871.	
1	Choadangah	***	•••	ditto	ditto Nil	Nil	29th Jan. 1871.	
	Kooshteah Jessore	***		Nil ditto	ditto	ditto	ditto.	
	Saugor Island	***	•	ditto	ditto	ditto	ditto.	
1	Calcutta C.Joil	***	•••	ditto	ditto ditto	ditto	ditto.	
1	Alipore { Jail Dispen	sary		ditto	ditto	dirto	ditto.	
	Barrackpore	***	•••	ditto	Not received	ditto	22nd Jan. 1871.	
i	Dum Dum Baraset	enla.		ditto	ditto ditto	ditto	ditto.	
1	Satkherah _			ditto	ditto	ditto	ditto.	
100	Busseerhaut	***	•••	ditto	ditto	ditto	ditto.	
8.9	Diamond Harbour		2-1-1	141114	1411141	TAXABLE OF THE PARTY.	MEETING.	The second secon

DIVISIONS,	Stati	Stations.			Rainfalls from 23rd to 29th Jan. 1871.		N FROM 1st NUARY 1871.	e Remarks.
DIAI	•			Rainfall from 16th to 22nd Jan. 1871.	Rainfi 23rd Jan.	Rain.	Up to date.	
-	Telegran	oh Offi	ce	Not received	Not received			
i	Dacca Telegran		***	ditto	ditto	Nil	15th Jan. 1871	
- 1	Burrisaul	***	***	Nil	Nil	ditto	29th Jan. 1871	
1	Dowlat Khan	***		ditto	Not received	ditto	22nd Jan. 1871	
	Perozepore	***	***	ditto	Nil	ditto	29th Jan. 1871	- Marie - Mari
4	Madaripore	***	***	ditto	ditto	ditto	ditto.	
DACCA.	Furreedpore	***		ditto	ditto	ditto	ditto.	
3	Mymensing	***	**	ditto	Not received	ditto	22nd Jan. 1871.	1
٦,	Jamalpore	***	***	ditto	ditto	ditto	ditto.	
	Atteah	***	***	Not received	ditto	144		the latest the second
1	Kishorgunge	***	***	Nil	Nil	Nil	29th Jan. 1871.	
. 1	Sylhet	***	***	ditto	ditto	ditto	ditto.	
1	Cachar	***	***	ditto	ditto	ditto	ditto.	
-	Aenakhall Hylak	andy	***	Not received	Not received	***	***	
6 [Chittagong (Tele	graph	Office	Nil	Nil	Nil	29th Jan. 1871.	
			***	ditto	ditto	ditto	ditto.	
51	Cox's Bazar	***	***	Not received	Not received	11	***	
4 (Rangamatea Hill	***	***	Nil	ditto	Nil	22nd Jan. 1871.	
	Noakhally	10.0	***	ditto	Nil	ditto	29th Jan. 1871	Not received 2nd to 8th Jan.
CHITTAGONG.	Tipperah	***	141	ditto	ditto	ditto	ditto.	
1	Brahmanbariah		***	ditto	Not received	ditto	22nd Jan. 1871.	
	Akyab	***	***	ditto	Nil	ditto	29th Jan. 1871.	
ŗ	Buxa	***	***	ditto	ditto	ditto	ditto	
. 1	Gowalparah	***	***	ditto	Not received	ditto	22nd Jan. 1871.	
- Long	Dhobree		***	Not received	ditto			
	Toora (Garo Hill		00"	Nil	ditto	Nil	22nd Jan. 1871.	
1	Darjeeling { Tele	graph	Office	Not received	ditto	***		
	Dunaha (Jan		***	ditto	ditto	***		
1	Rungbee Terai	***	***	ditto	ditto	***	***	
	Falacottah	***	***	ditto	ditto	***		Not recorded.
	Julpigoorie	***	***	ditto	ditto	Nil	15th Jan. 1871.	
1	Boda	***	***	Nil	Nil Not received	ditto	29th Jan. 1871.	
1		***		ditto	Not received	ditto	22nd Jan. 1871.	
1	Tezpore	***	***	ditto	ditto	ditto	ditto	
	Nowgong	***	***	Not received	ditto	ditto	8th Jan. 1871.	
	Burpettah	***		Nil	ditto	ditto	22nd Jan. 1871.	
	Gowinatty	***	***	ditto	ditto	ditto	ditto.	
; 1	Seebsaugor	***	***	ditto	ditto	0.09	ditto	
1	Golaghat	***	***	Not received	ditto	Nil	15th Jan. 1871.	
1	Nazeerah	***		Nil	ditto	0.03	22nd Jan. 1871.	
	Debrooghur	***	***	Not received	ditto	Nil	15th Jan. 1871.	
1	Suddya	***	***	ditto	ditto	0.07	ditto	Not received 2nd to 8th Jan.
1	Shillong Jowai	***	***	Nil	ditto	Nil	22nd Jan. 1871.	11.10
	Samoogoodting	***	***	ditto	ditto	ditto	ditto.	
1	Samoogoodting		***	Not received	ditto	ditto	15th Jan. 1871.	6

CALCUTTA,
The 4th February 1871.

HENRY F. BLANFORD,
Meteorological Reporter to the Govt. of Bengal.

Abstract of Observations as received in the Meteorological Reporter's Office, Calcutta,

DURING THE HALF MONTH 18T TO 15TH DECEMBER 1870.

N.B.-The Barometric data are reduced for temperatures, and not for height above sea level.

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BAROMETER.	MEA	.am	10 po	30.086 30.116 30.106 30.106 30.106 30.147 30.016 30.016 30.075 30
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		SIAIIONS.		Port Blair Madras Vizagapatum Akyab False Point Cuttack Saugor Island Chittagong Chittagong False Point Marca Chittagong False Becca Falma Monghyr Darca Goldutta Rerhampore Patina Monghyr Darca Goldutta Resing Berhampore Fatina Ronghyr Darceling Goldparnh Berhampore Rentres Ronckee

Henry F. Blanford, Meteorological Reporter to the Gout, of Bengal.

CALCUTTA, The 3rd February 1871. Mean Pressures and Temperatures of the Preceding Table Reduced to Sea Level, with Mean Wind Rirections.

			Mean barometric	Mean temperature	, v	VIND.
	STATIONS.		pressure reduced to sea level.	reduced to sea level.	Proportional prevalence Max=100.	Mean direction.
Port Blair Madras Vizagapatam Akyab False Point Cuttack Saugor Island Chittagong Calcutta Jessore Dacca Cachar Hazareebaugh Gerhampore atna Honghyr Darjeeling owalparah billong enares oorkee			30'064 30'088 30'058 30'141 30'129 30'090 30'072 30'090 30'095 30'072 30'066 30'118 30'097 30'124 30'071 30'131 30'053 30'130 30'143	75-11 72-8 69-9 66-9 67-8 68-6 66-9 63-7 68-3 66-6 66-9 59-9 63-2 65-3 67-2 63-9 58-9	91 64 61 82 49 87 54 88 95 63 71 90 83 61 69 22 50 1	N 4° E N 66° R N 24° W N 8° E N 16° W N 7° W N 56° W N 56° W S 30° E N 61° W N 43° W N 66° W S 62° W E S 71° E N 71° W N 45° W

NOTE.

Barometric Pressure.—The pressures in column 2 of the above table for all stations below 500 feet are reduced from those given in column 3 of the table on the previous page by adding the weight of a column of air of the corresponding temperatures given in column 17. For stations of above 500 feet elevation, the reduction is made by Dippe's tables as given in Guyot's "Meteorological and Physical Tables."

Temperature.—The temperatures in column 3 are reduced from those in column 17, on the preceding page, by adding 1° Fahr. for every 350 feet.

Wind Direction.—The mean wind direction and its comparative prevalence are calculated from the whole number of wind observations recorded during the half-month. The latter is given as a percentage of the whole number of observations. The mean direction is calculated in the world way by Lombart's formula. in the usual way by Lambert's formula.

The above being all comparable, afford the data for constructing a meteorological chart for the half-month which shall shew the isobaric and isothermal lines, and the resultant wind directions, which last may be represented by arrows of varying length proportioned to the prevalence of the wind. To these may be added the rainfall from the previous tables.

> HENRY F. BLANFORD, Meteorological Reporter to the Government of Bengal.

CALCUTTA, The 3rd February 1871.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY-MAIN LINE.

Approximate Return of Traffic for week ended 21st January 1871, on 1,279; miles open.

Exercise C. Letter	We let	COACHING TRAP	PIC.		MERCHAND	IBB AND MINERA	L THAPPIC.	Total Tr	
	Number of passengers.	Coaching	receipts.		Weight carried.	Rece	ipts.	Receip	ts.
Total traffic for the weeks Or per mile of railway For previous 2 weeks of half year Total for 3 weeks	100,039\(\frac{1}{2}\) 182,727\(\frac{1}{2}\) 282,767	Rs. As. P. 1,45,558 12 4 113 12 2 2,84,162 0 6 4,29,720 12 10	13,342 17 10 8 26,048 3	1. 9 7 8	Mds. Srs. 585,457 10 1,196,605 20 1,785,062 30	Rs. As. P. 3,88,197 9 6 303 6 5 7,25,064 0 6	£ s. d. 35,584 15 7 27 16 3 66,464 4 1 102,048 19 8	£. 48,927 38 92,512	13 4 1 7
Comparison. • Total for corresponding week of previous year Per mile of railway, corresponding week of previous year Total to corresponding date of previous year	131,435\{	2,21,587 13 8 195 14 9 8,15,595 13 2	20,812 4 17 19 74,762 19		722,983 20 2,235,915 20	4,23,198 12 8 374 2 11 18,15,375 2 10	38,793 4 5 34 6 0 120,576 1 1	59,105 52 195,339	8 1 5 0

EAST INDIAN RAILWAY—JUBBULPORE LINE.

Approximate Return of Traffic for week ended 21st January 1871, on 223 miles open.

Total traffic for the week Or per mile of railway For previous 2 weeks of half year	5,183\frac{1}{2}	Rs. As. P. 15,514 4 10 69 9 2 37,092 2 5	£ s, d. 1,422 2 11 6 7 7 3,400 2 3	Mds. Srs. 42,908 0 109,398 10	Rs. As. P. 13,181 12 · 9 58 14 · 2 33,959 · 6	£ s. d. 1,203 14 11 5 7 11 8,112 18 11	£. s. d. 2,625 17 10 11 15 6 6,513 1 2
Total for 3 weeks	16,197	52,606 7 3	4,822 5 2	152,306 10	47,001 3 3	4,316 13 10	9,138 19 0
Total for corresponding week of previous year Per mile of railway, correspond- ing week of previous year Total to corresponding date of previous year	6,819 23,517	19,572 15 8 87 12 4 86,814 4 1	1,794 3 9 8 0 11 7,957 19 6	35,291 20 106,347 0	10,982 14 7 49 4 0 33,829 3 2	1,006 15 4 4 10 8 3,101 0 2	2,800 19 1 12 11 2 11,058 19 8

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for week ended 21st January 1871, on 1561 miles open.

Total traffic for the week Or per mile of railway Por previous 2 weeks of half year	26,376 169 54,887	Rs. As 17,789 1 113 1 30,412	5 0	6 6	£ s. d. 1,630 15 0 10 8 5 2,787 15 11	Mds. Srs. 109,634 6 701 0 174,501 24	Rs. As. P. 24,340 9 9 105 8 6 44,547 5 8	£ s. d. 2,231 4 5 14 5 2 3,808 10 1 6,039 14 6	£ s. d. 3,881 19 5 24 13 7 6,596 6 0
Total for 3 weeks COMPARISON.	81,263	48,202	4	3	4,418 10 11	284,135 30	65,087 15 5	0,000 14 0	10,100 0 0
Total for corresponding week of	34,234	26,220	1	24	2,403 10 2	98,989 37	15,168 7 10	1,390 8 10	3,793 19 0
Per mile of railway, corresponding	302	231	8	5	21 4 5	874 0	133 15 0	3,895 5 11	33 10 0
Total to corresponding date of previous year	93,235	67,018	5	51	6,143 7 0	282,078 211	42,494 2 8	0,000 0 11	10,000 12 11

CALCUTTA AND SOUTH-EASTERN STATE RAILWAY.

Approximate Return of Truffic for week ended 21st January 1871, on 28 miles open.

Total traffic for the week Or per mile of railway For provious 16 weeks of half year	13,942 498 95,468‡	Rs. As. P. 1,739 12 6 62 2 2 15,207 11 6	£ s. d. 173 19 7 6 4 3 1,520 15 5	Mds. 8rs. 10,853 35 387 3 176,308 28	Rs, As. P. 326 13 9 11 10 9 5,750 15 9	£ s. d 32 13 9 1 3 4 575 2 0	£ s d. 206 13 4 7 7 7 2,005 15 5
Total for 17 weeks	109,4101	26,947 8 0	1,694 15 0	187,163 23	6,077 13 6	607 15 0	2,302 10 9
Comparison. Total for corresponding week of previous year Per mile of railway, corresponding week of previous year Total to corresponding date of previous year	6,943 248 75,619 1	1,101 3 0 30 5 3 14,008 13 9	100 VS 10 8 12 1 1,284 2 10	11,987 80 427 0 162,126 14	\$79 10 6 13 8 11 6,643 6 5	58716 1 1 4 11 517 6 4	185 14 11 4 17 0 1,801 9 2

ORISSA CIRCLE.

Statement sheaving the amount of Traffic and Tolls on the Kendraparak Canal during the month of November 1870. DISTANCE FROM CUTTACK TO TERMINAL LOCK AT TIDE WATER, 42 MILES.

		1	IES.	REMA	off o dail si beneine	ozenast ban etsod	po
			10	Tollag	Bs. As. 44 15 652 6 14 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	711 10
	1		*o.Su	nnoT	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	11	
	ABSTRACT.		off traffic.	nlaV	Rs. As. P. 40,615 8 0 1,93,479 8 0		2,34,244 4 6
			offinit to orn	3vR	Local Through1 Irri, works		2,3
		*8	nod to redn	mN	30 217 115 115	1 8	202
R IRRI.			joke.	IoT	Rs. As. P. 10 3 5 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1. 22	
LS PO	oo.	TONNAGE.	'eu	Lo	1111111111	93	-
FERIA		Ton	.ebanz	W	1,650 140 300 104 408	2,303	
STORES AND MATERIALS FOR IRRI.	3	o entr	pproximate v	v	Rs. As. P. 7 0 0 43 7 0 0 16 6 6	149 4 6	
STORES		*02	fature of car	X .	1:	:	
_	-	.818	d to reduced	I	6 Stone Stone Stone Shorts 2 Shorts 4 Bricks	1 20	-
AND	_		Pollage.		Rs. As. P. 193 2 0 99 8 4 4 13 10 9 11 4 5 5 11 4 5 5 11 8 8 0 25 25 25 2 8 6 7 8 6 7 8 8 8 6 7 8 8 8 6 7 8 8 8 8	652 6 1	
TACK	SNAGE	1	Tons.		1111111111	640	
N CU.	Ton		Maunds	_	19,953 6,664 1,000 1,100 8,510 4,334 3,898 1,702 1,708 1,716 7,963	8 45,934 1,	
TRAFFIC BETWEEN CUTTACK AND SEA-BOARD,	30 0	nlav e	Approximation of the cargo.	, d	6,478 8 6,478 8 1,100 0 1,100 0 1,285 0 88,880 0 1,7,980 0 8,480 0 8,480 0 8,480 0 8,148 0 0 1,148 0 1,148 0 0 1,148	1,93,479 8	
TRAFFIC	4	Nature of cargo,			Paddy Passengers Hides Gram Rice Clothes Spice Spice Jaggery Jaggery Jingilly seed	1	
		Number of bonts		HI A	7288847070884	212	
			Tollage.	Rs. As. P.	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	44 15 0 2	
	TONNAGE.	Tons.			1111111111	580	0
Na se su	To	.spunsM			0 2,700 0 2,700 1,000 0 8 2,039 0 810	8 7,841	SCHOOL STATES
Committee Fig.	o ent	пу өзг	Approxim cargo.	Rs. As.	24,390 24,390 11,1111111111111111111111111111111111	40,615 8	10000
	.0	Ялио ј	Natureo		Salt Jaggery Tassengers Bricks Cotton	1	
1	,e5s,	od 10	Number		48040	98	Charles and the

ORISSA CIRCLE.

Statement shewing the amount of Traffic and Tolls on the First Section of the High Level Canal during the month of November 1870.

LENGTH OF CANAL OPEN, 25 MILES.

	•	LOCA	L TRA	FFI	0.		ETORE:	RIGAT	MATER ION W	RIALS ORKS	FOR			ABS	TRACT	r,
ats.	*	value of	Ton	NAGE.		· los	ė.	alue of	Ton	NAGE,		18			I	
Number of boats.	Nature of cargo.	Approximate v	Maungls.	Tons.	Tollage.	Number of he	cargo.	Approximate value of cargo.	Maunds.	Tons.	Tollage.	Number of boats.	traffic.	Value of traffic.	Tonnage.	Tollage.
1		Rs.			Rs. As.	P.		Rs.			Rs. As. P.			Rs.		Rs. As. I
5 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Passengers Empty Straw Rice Salt Lime Pimber Horses	96 274 60 40 5 80	No. 1,221 760 1,8201 401 28 233 5 50 No. 2		8 11 1 15 0 1 2 4 6 0 4 6 0 8	2 1	Empty	10 	548 118 		0 4 0 0 8 0 	67 2	Local Govt	555 10 	117½ 6½ 	67 1 1 0 12 0 0 12 0 0 12 0 0 0 12 0 0 0 0
-		555	3,293	1175	57 1 11	2		10	1724	61	0 12 0	69	1	565	124	57 13 1

The "tonnage" shewn is that of the boats and not of the goods.

Statement shewing the amount of Traffic and Tolls on the Taldundah Canal during the month of November 1870.

LENGTH OF CANAL OPEN, 7 MILES.

boats.	ssengers	value of	Tons	AGE.		pre per	ts.	0	value of	Tons	AGE.	1 2		1	1	1	1.	Ī		
Number of boa	Number of pass	Approximate v	Maunds.	Tens.	6	mile	Number of boats.	Nature of cargo,	Approximate vacargo.	Maunds.	Tons.	Tollage @ 4as	100.	Number of boats.	Nature of traffic.	Value of cargo.	Tonnage.		Tollage.	
27	1,697		11,950	**	1	As. P.	1	Laterite stone Cut sand stone		65,373 675		Rs: As	6 11	13.00	Jattri boats		457	Rs.	As.	
7*		•	840		2	1 3	10	Ghooting lime Rubble stone	3,380 2,150				0 0	51	Irriga-	60,590	2,888*	202	3	7
34	1,697	***	12,790	457	63 1	5 2	51		60,590	80,863	2888	203	3 7	85		60,590	3345	266	2	9

SOUTH-WESTERN CIRCLE.

Statement shewing the amount of Traffic and Tolls on the Midnapore Section of the High Level Canal during the month of November 1870.

LENGTH OF CANAL OPEN, 24 MILES.

	'sx	нияя	bun eshewn in this statement is that of the boate, and of the cargo.
Jar		Tollage.	Rs. As P. 1,189 5 1 2 3 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Tonnage.	2,508
ABSTRACT.	Value of	traffic.	Bs. 3,48,377
	Noture of		Local Irru, works
	Number of	boats.	1, 11,111,111,111,111,111,111,111,111,1
ORES.		Tollage.	Bs. As. P. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
TION W	AGE.	Tons.	
RRIGAT	TONNAGE.	Maunds. Tons.	111111111111111111111111111111111111111
IALS FOR I	Approximate	cargo.	111111111111111111111111111111111111111
STORES AND MATERIALS FOR IRRIGATION WORES.	Nature of	OR ALEGO	Miscellaneous
STO	Number of	rafts.	
	Tollare		Rs As. P. 17 7 7 0 27 13 6 28 13 3 29 16 6 31 1 6 31 1 6 31 1 0 41 1 0 41 1 1 6
	AGE.	Tons.	
	TORNAGE.	Maunds	2,650 6,025 4,100 900 8,150 9,150 1,
LOUAL TRAFFIG.	Approximate	value of cargo.	474 29,416 1,069 6,389 8,140 11,701 14,079 3,109 1,10,247 2,919 2,919 2,919 2,919 2,919 2,919 2,919 2,919 3,410 2,710 3,410 2,710 3,410 2,710 3,410 2,710 3,410 2,710 3,410 2,710 3,410 2,710 3,410 2,710 3,410 2,710 3,410 2,710 3,410 2,710 3,410 2,710 3,410 2,710 3,410 2,710 3,410 2,710 3,410 2,710 3,410 2,710 3,410 3,410 4,
LOCA	Nature of cargo.		Coal Cotton Cotton Gotton Hides and horus Jargery and sugar Metals Miscellameous Oil and oil-seeds Peddy and rice Peddy and rice Peres goods Garden produce Press goods Garden produce Press goods Garden produce Fress goods Straw Tobacco Bricks Tobacco
	Number of		- 128 - 128

Statement shewing the amount of Traffic and Tolls on the Hidgelee Tilal Canal during the month of November 1870. Length of Canal Open, 26 miles

										F							CONTRACTOR OF THE PARTY OF THE				100		20					-			ESS.	1	SERIE	ID Str	
		.Eolfinge.	. Bs. As P.	673 1 6	33 7 6	7			1			•	にはいい					が対しまった。							•							の一般を表現した。		1	0 6 000
		Tonnage.		3,144	135				****							***		100 miles			ŀ					· ·				***				0.000	Riste
ABSTRACT.	.ofA	nut do salaV	Rs.	1,79,992	490					一 のまで 時	A 14 THE ST				-	4		1000			1									-	***			200,000	1,80,982
		Nature, of traffic.		Local	For irra. work			一 一							THE PRINCIPAL STATE	· · · · · · · · · · · · · · · · · · ·	TO HOUSE			The state of the s							I			The same of the same of		* CONT. 1	11	一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一	
	pours.	To redimin		667	19	-				70.0								***	4	1	100	***				***					***			1	676
ORKS.		Tollage.	Rs. As. P.	3 0 0	•	15 15 6		A STATE OF STREET	1		-		A			1		1000		September 1	THE REAL PROPERTY.					-				Section 1			11		
N NO	GE.	Tons.		1		-		1 1			***	1	1			1	1	i	1	1		1			1						***			1	
RRIGATI	Тоязаев.	Mannds.		000	855	1,725	1,000			-		***		:	: :	300		***					****					100				100		-	1
MATERIALS FOR IRRIGATION WORKS.	enlav	Approximate of cargo.	Rs.	820	SEE STATE	100	100				-			1					1		A	-										Section 2		1	489
STORES AND MATERI		Nature of cargo.		Coal	ty.	Brick				一年 日本本の日子										THE RESERVE AND ADDRESS OF				State of the second			一名の一日の一日の一日の一日の一日の一日の一日の一日の一日の一日の一日の一日の一日の			The state of the same					
STOR	atnod	Number of or raits.	2.		2	241						***	-		i			The same of	-	-		S. San Steel		A	1					10 Sec. 476		STATE OF STREET	1	-	10
		.egalloT	Bs. As. P.	83 5 0	50 2 6	6 7 3	2 0 8	1 6 6	0.14 0	10 10 3	10 14 0	5 10 0	7 8 6	0 0 0	9 00	0 10 0	0 7 3	15	3% 1 9	- 1	1 0 3	1 6 0	0 8 0	000	18 0 6	1 2 0	8 4 3	1 0 6	0 0 0	1 10 0	1 7 6	4 19 0	\$ 0 C		9 1 529
	AGE.	-кпоД					1							1	1				-			Sec.	***		***			-		100 miles					3,144
	TONKAGE.	Mannds		4 095	9,500	1.140	610	08	176	1.885	9:175	1,195	1,505	400	350	90	90	1,765	No. 2,470	90,290	900	27.6	25	225	0.000	100	1,950	125	000	072	295	020	2000	07	
LOCAL TRAFFIG.	onjus	Approximate of curgo.	Bs.	00 000	40.875	110	150	0%	15	480	1.535	00	0,020	0400	8900	1,200	2,700	23,000		- OG 0=#	000	7,000	60	20	4 060	40	2,5'0	20	I	6.020	89	1,500	14,125	10	1,79,999
LOCAL		Nature of cargo.			Toblecoo	Pottery	Oil cake	Clock	Dientein	Secured	Stone lime	and	Corts	Water	Coal	Sugar	Cotton	Fimber	Passengers	Emply	Vaccialda	Sugar-candy	Furniture	Charcoal	Cumis	Skin	Jule	Plates	Mulberry tree	Charting.	Lime	Mats		ong at Amile	
•	esta	Mumber of be		2 60	000	120	9		が一般の	12	N. S.	8	14 (1	00	2	The state of	10 10	31			1 8	1	1	147	1 8	15	1		-	3 3 3	27	10	1	657

N. B.-The toungge shewn above is that of the boats, and not of the cargo.

J. F. Srodand, Lieutenant-Colonel, M. S. C., Asst. to Chief Engr., and Jt. Secy., P. W. D., Irrigation Beaucit, Bengal.

The 2rd lebraary 1871.

ORISSA CIRCLE.

Statement shewing the amount of Traffic and Tolls on the Kendraparah Canal during the month of December 1870.

DISTANCE FROM CUTTACK TO TERMINAL LOCK AT TIDE WATER, 42 MILES.

		'exuv	жаз	The tonnage shown is that of the cargo,
		Tollage.		Rs. As. P. 103 5 7 861 4 0 25 10 0
A/OT		Connage.		2020 1986 1986
ABSTRACT		Value of traffic, Tonnage.		Rs. As. P. 53,021 0 0 8,35,422 0 0 4,754 0 0
		Nature of traffic,		Local Through Irrn. works.
2	-	etnod to voda	mN	G 00000
IGATIO		Tollage.		88. As. D. 133. As. P. D. 2010.0010.0010.0010.0010.0010.0010.001
OR IRR		spun	ToT	11111111111111
ALS F	F	and the same of	Ma	0 1,144 0 2,767 0 1483 0 1483 0 1483 0 1483 0 1483 0 1483
MATERI		Apprexi- mate value of cargo.		Rs. As. 1
STORES AND MATERIALS FOR IRRIGATION WORKS.		Nature of cargo.		Bricks Laterite stone Shoots Firewood Empty
STC	.8	umber of boat	N	@ to to the total to the to
BOARD.		Tollage.		Rs. As. P. 768 6 0 1768 6 0 117 15 0 0 47 10 0 0 47 10 0 11 11 13 4 11 11 13 4 11 11 13 4 11 11 13 4 11 11 13 4 11 11 13 6 0 11 15 6 0 0 115 6 0 0
(D SEA	AGE.	*sno	T	11111111111111
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TRAFFIC BETWEEN CUTTACK AND SEABOARD.		Approximate value of cargo.		Rs. As. P. 6.870 0 0 6.447 0 0 1,38,340 0 0 80,520 0 0 98 in No. 1,62,150 0 0 16,880 0 0 16,880 0 0 16,890 0 0 16,890 0 0 8,045 0 0 8,045 0 0 8,045 0 0 8,045 0 0
RAFFIC BET		Nature of cargo.		Paddy Rice Spices Comm Opium Passengers Passengers Cotton Salt Jaggery Treasure Castor seeds Hides Empty
P	·sque	od lo todmuN		28. 109. 109. 109. 109. 109. 109. 109. 109
		Tollage.		46 12 0 46 12 0 12 12 0 0 10 0 11 12 0 0 10 0 10
FIG.	TONNAGE.	Tons,		11111111111111111
TRAF	V-bell	Maunds.		8,973 793 335 1,106 1,116 2,123 2,123 2,123 1,126 1,12
LOCAL TRAFFIC.	Anmoni		Re	4 10
		Nature of cargo.		Jaggery Oil-cake Passengers Paddy Salt Gravel
	2 2000	Number of	1000	200000 (8

ORISSA CIRCLE.

Statement showing the amount of Traffic and Tolls on the First Section of the High Level Canal during the month of December 1870.

LENGTH OF CANAL OPEN, 241 MILES.

34 Passeng 25 Empty 13 Straw 11 Rice and 2 Wood 2 Palkee 1 Horse	ture of carg	0.		TONNA		1	100	1	There are a series		No second	
84 Passeng 25 Empty 13 Straw 11 Rice and 2 Wood 3 Palkee 1 Horse	ture of carg	70.	Distriction with Library	OFFICE STREET	GE.		boats.		98 A W. C			
25 Empty 13 Straw 11 Rice and 2 Wood 3 Palkee 1 Horse		•	Approximate value of cargo.	Maunds.	Tons.	Tollage.	Number of box	Nature of truffic.	Value of traffic.	Tonnage.	Tellage.	Ban ina
Vegetable Steamer	and Paddy	1111111	Rs. As. P. 74 8 0 189 8 0 1 2 0 70 0 0 50 0 0 49 0 0	414 in No. 2,068½ 1,037½ 646½ 52½ 3 in No. 1 in No. 164 1,056	180	Rs. As. P. 11 7 84 6 10 4 4 10 7 2 3 8 0 3 2 0 12 0 0 4 0 0 15 10 10 0 0 37 4 09	96	Local	Rs .As, P. 484 2 0	180		statement is that of the

ORISSA CIRCLE.

Statement shewing the amount of Traffic and Tolls on the Taldundah Canal during the month of December 1870.

LENGTH OF CANAL OPEN, 7 MILES.

		Tollage.	Rs. As. P.	19 11 7	-
		*elleunoL		118	3,611
ABSTRACT.		Value of traffic.		4,550	
AB		Nuture of fraffic.		Local Traffic Passenger Irrication	
	*831	Number of bo	-	SI 12 S	0110
OATION		Tollage,	Rs, As, P.	180 4 33 10 1 7 16 9	
IRRI	GE.	Tons,		9,676 481 91 237	3,314
LS FOR	TONNAGE.	Manuel		72,106 13,462 585 6,639	99,792
ATERIA! WORK	onlav	Approximate of cargo.		69,505 10,000 230 2,738	72,491
STORES AND MATERIALS FOR IRRIGATION WORKS.		Nature of cargo.		Laterite stone Lime Cut sand-stone Rubble ditto	
50	,edno	Namber of b		28 - 22	8
EALPORE.		Tollage at 1-4 per head per mile,	Rs. As, P.	10 II 7	12 11 7
N ON	AGE.	Tons.		1 161 1	119
ACK /	TONK	Mannds.		3,315	3,315
N CUTI	-uessi	Rozar Rozar		18 a	319
CWEE		argo.		i 100	
TRAFFIC BETWEEN CUTTACK AND NEALPORE		Nature of cargo		Passengors	
TR	.eino	Number of b		1 12 1	19
		Tollage.	As.	3 5 10 0 10 10 6 2 11 70	13 6 9
	AGE.	-snoT		80 22 08	178
AFFIC.	TONSAGE	Mennads.		1,347 265 873 2,486	4,970
COCAL TRAFF	oniny	Approximate of cargo.	Bs.	2,700 500 1,350	4,550
100		of cargo.		1111	
		Nature		Faddy Rice Salt Empty	
	'stro	Mumber of be		1000	22

N. B .- The tonnage shewn is that of the bosts, and not of the cargo.

SOUTH-WESTERN CIRCLE.

Statement shewing the amount of Traffic and Tolls on the Midnapore section of the High Level Canal during the month of December 1870.

Length of Canal open, 24 miles.

		LOCAL TRA	FFIC.	*	*			ABSTRA	CT.		
ats.			TONN	AGE.		boats.	- 6		*		
Number of boats.	Nature of cargo.	Approximate value of cargo.	Maunds.	Tons.	Tollage,	Number of bo	Nature of traffic.	Value of traffic.	Tonnage.	Tollage.	
		• Rs.			Rs. As. P.	. 4	*	Rs. As. P.		Rs. As. P.	
5 9 14 2 2 5 3 9 2 10 2 6 3 16 2	Coal Cotton Cotton Grain Hides and horns Jaggery & sugar Metal Miscellaneous Grain of the seds Miscellaneous Graden Fiece goods Garden produce Salt Silk and Indigo Tobacco Bricks	1,023 16.630 3,743 950 3,000 3,995 2,124 2,878 718 26,500 1,080 4,325 2,740 21,312	5,200 3,100 6,300 6,300 1,375 800 1,375 1,200 1,725 425 3,650 675 2,375 625 5,700		45 0 0 19 4 0 6 3 9 10 6 5 0 0 8 3 6 6 7 6 0 10 12 6 2 7 6 0 23 3 0 6 14 13 6 3 3 0 35 5 0	280	Local Irrn. works	91,066 0 0	1,770	398 6 7	age shewn is that of the boats,
97 94	Empty Passengers	48	950 13,650 No. 770	-	3 9 0 91 7 0 6 1 4				:::		tonnage
80	Miscellaneous	91,066	48,025	1,770	76 12 9 398 5 7	280		91,066 0 0	1,770	398 5 7	The

SOUTH-WESTERN CIRCLE.

Statement sheroing the amount of Traffic and Tolls on the Hidgellee Tidal Canal during the month of December 1870.

Length of Canal Open, 26 miles.

	. Ito	LOCAL TRAFFIC.	TO.				STORES AND MATERIALS FOR IRRIGATION WORKS,	ERIALS FOR 1	TRRIGAT	ION WO	RKS,	-		ABSTRACT.			1
Number	Nature of cargo.	Approximate	Токхаба	AGE.	Tollage	Number		Approximate	TONKAGE.	IGE.	1	Number		100			'sx
or ponts.	,	cargo.	Mannds.	Tons.		boats or rafts.	enture of cargo.		Maunds.	Tons.	Tollage.	of boats.	Nature of traffic.	traffic.	Tonnage.	Tollige.	плияя
		Rs.			Rs. As. P.			Rs.		-	Rs. As. P.		pe 19	Rs.		Rs. As. P.	
	Tebacco Salt	8,940	1,490	i	0 8	27	Sand	:	7,750	1	. 38 19 0	418	Local	1,01,867	1,940	318 2 6	
1 64			400		000		*****	:					For Irrn. works	oo I	280		
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74	soi	1,750	280	1	1 8 6			11	:	11	: 1	: 1			11	11	
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25	Paddy	7,940	3,530	11	22 29 6 32 1 0	1,1		1	1	1		1			Ďi,		
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1		400	7,200	:	11 0 0	-		*	111	1				1	1		
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			-	-				The second second		1			Dates, Barrell of the				

N. B.—The tonnage shown above is that of the boats and not of the cargo.

J. F. Stoddard, Lieut.-Col., M.S.C.,
Assl. to Chief Engr., and Ji.-Secy., P. W. D., Irrigation Branch, Bengal.

PRINTED BY EDWIN MORBIS LEWIS, AT THE BENGAL SECRETARIAT OFFICE.

CALCUTTA,
The 3rd February 1871.



1871

SUPPLEMENT TO

WEDNESDAY, FEBRUARY 15, 1871.

FFICIAL

Non-Subscribers to the Gazette may receive the Supplement, separately, on payment of six Rupees per annum if delivered in Calcutta, or twelve Rupees if sent by Post.

Papers relating to the question of allowing 3 per cent. of the rental of Government estates for local improvements.

From the Secretary to the Board of Revenue, to the Secretary to the Government of Bengal,—
(No. 134, dated the 5th April 1859.)

SIR,

THE commissioner of the Cuttack division has informed the Board that, with the sanction of Government, a new line of road is under construction from Peeplee to Khoordah, in the Pooree district, and as he is of opinion that the Khoordah estate will principally benefit by the road, he has solicited permission

to defray half its cost from the collections of the estate.

2. The Board fully recognize the utility of the work, and they have no doubt that it will be very useful in facilitating communication and increasing the commerce, which is represented to be already very considerable along the present imperfect route; and as the Khoordah estate is susceptible of great improvement, they think it advisable that a certain portion of its proceeds should be devoted to its general improvement. With this view the Board beg to recommend that 5 per cent. of the net jumma of the estate may be made available for improvements, disbursements being made under the sanction of the commissioner, who will submit to the Board an annual statement of works undertaken, and of sums disbursed. The expense of the road above referred to should be defrayed from this allowance.

From the Secretary to the Government of Bengal, to the Secretary to the Government of India,—(No. 997, dated Fort William, the 23rd April 1859.) SIR:

In the accompanying letter from the Board of Revenue sanction is solicited to the expenditure of a portion of the rental of the Khoordah estate in Pooree, which belongs to Government, on local works for the improvement of the estate, under the superintendence of the commissioner of the division.

2. It is proposed by the Board of Revenue that 5 per cent. of the net collections should be set aside for this purpose, but this, in the Lieutenant-Governor's opinion, is too large a proportion. In the Khoordah estate 5 per cent. of the net jumma would amount to some Rs. 9,000 per annum. In His Honor's opinion 3 per cent. of the net collections would be sufficient to place at the disposal of the commissioner for carrying out those local objects on which a good zemindar would be disposed to expend a portion of his income for the benefit of the estate.

3. If His Excellency the Governor General in Council should approve of this proposition in the case of the Khoordah estate, the Lieutenant-Governor would venture to suggest that the principle should be extended to Government estates generally.

From the Secretary to the Board of Revenue, to the Secretary to the Government of Bengal,-(No. 164, dated the 25th April 1859.)

MR. DEARE, the deputy collector of Bhuddruck sub-division, who is in charge of the Government talook Noanund, in Balasore, lately took occasion to visit the talook, and has communicated the result of his inspection in the form of certain propositions for the improvement of the estate.

3. The commissioner knows of no good reason why the expenditure should not be allowed at once out of the collections of the estate. It is, he observes, the duty of Government as proprietor to improve its own property, which has been in its possession for about forty years without any attempt whatever having been made for its improvement.

for its improvement.

The Board appreciate Mr. Deare's desire to improve the estate, of which he has been placed in charge, and consider his proposals well worth consideration. They concur with the local officers as to the primary necessity of the road, but there are no ferry funds available, or any funds for carrying into effect plans for the improvement of the estate. They are of opinion that it would be of advantage to create such a fund in Balasore, and with this view they would recommend that 5 per cent. of the annual revenue of the Noanund talook be set apart as a khas mehal fund to be expended for the improvement of the estate. The accumulations of this annual grant would in a few years suffice to carry out many of the measures proposed by Mr. Deare.

From the Secretary to the Government of Bengal, to the Secretary to the Board of Revenue,-(No. 1113, dated Fort William, the 6th May 1859.)

SIR.

I am directed to acknowledge the receipt of your letter No. 164, dated the 25th ultimo, and in reply to state, with reference to your previous letter, No. 134 of the 5th idem, that a proposition has been submitted to the Government of India for the assignment of 3 per cent. of the rental of the Khoordah estate for local improvements, and it has been suggested that if this meets with the sanction of the Supreme Government in the case of the Khoordah estate, the same rule might be extended to all estates the property of Government.

From the Under-Secretary to the Government of India, to the Secretary to the Government of Bengal,-(No. 1142, dated the 4th June 1859.)

I AM directed to acknowledge the receipt of your letter No. 997, dated the 23rd April last, with enclosure, and to inform you in reply that His Excellency the Governor General in Council is pleased to sanction the rule suggested by the late Lieutenant-Governor, that commissioners, under the general sanction of Government, shall be vested with a discretion to expend not more than 3 per cent. of the net collections from Government estates on objects calculated to improve the condition of the estates and of the ryots occupying them.

From the Officiating Secretary to the Board of Revenue, to the Junior Secretary to the Government of Bengal, -(No. 494, dated Fort William, the 16th July 1861.) SIR,

I AM directed to acknowledge the receipt of your letter No. 308, dated the 17th ultimo, forwarding an extract from a letter from Captain Hopkinson, the commissioner of Assam, proposing to double the land taxes of that province and to devote the excess so obtained to the construction of works of public utility.

In reply I am desired to say that the subject of an increase to the . rates of assessmen! having been for some time under the consideration of the Board on certain propositions submitted by Colonel Jenkins, the late commissioner of the province, they are enabled to communicate, without further reference to the local authorities, the opinions which they have formed on the

subject referred to them in your letter under acknowledgment.

3. The proposals which were made by Colonel Jenkins, and which are explained in detail in the subsequent paragraphs of this report, were—first, to increase the rates of assessment on land throughout Assam proper; and, secondly, to extend to that province, where the property in the soil belongs to the State, the authority under Government order No. 1414 dated the 11th June 1859, of assigning 3 per cent. on the collections to the improvement of estates which are the property of Government.

- 5. It appears to be acknowledged on all hands that the present rates of taxation are light, and though the opinions of officers employed in the districts, both now and in past times, differ as to the distinction which should be observed according to the position and circumstances of particular localities, it appears to be generally admitted that an increase on the present rates of some kinds of land may be effected without any hardship to the people.
- 10. The following extract gives the substance of Colonel Jenkins' opinion on this subject :-

"For instance, Kamroop possesses very evident advantages over all the other divisions, particularly in being so near the great marts below, and possessing the means of navigation by the large Bengali boats, which have at all times easy access to Gowalparah, and at most times to Gowhatty and Burpettah, three great marts of the Kamroop division; but beyond Gowhatty, from the strength of the current, and the short time westerly winds prevail, the navigation by large boats is difficult and uncertain, and ever increasing in difficulty as the river is ascended."

"This command of navigation is of the highest advantage to Kamroop, and, considering also the superior denseness of its population, and generally greater advancement in trade and civilization, I am of opinion that Kamroop may always bear a higher taxation than any other

"The reverse to Kamroop is the Luckimpore division, which has generally very spare and backward population, and can hardly be said to have any communication direct with the great Bengali marts, and must depend on the local consumers, in great measure, for the sale

of its surplus produce."

"The other divisions may be said to be intermediate between these two in their enjoyment of the advantages alluded to; but local circumstances make small differences in each. Seebsagur benefits above all in the local expenditure of money from the great extent of the tea plantations in the division, but it is more than all the other divisions liable to constant destruction of crops from the inundations of its hill streams. Durrung, perhaps, is the most unfortunate of all, large tracts being almost destitute of population, and not generally favorable to rice cultivation; whilst it has little or no trade, only three small tea plantations: and the prime portion of its laborers, the Doan Cacharees, are entired away in all directions for the cultivation of tea and for public works.'

"The relative circumstances of the divisions may thus, I think, reasonably be opposed to the equalization of the rate throughout the province."

The Board cannot but feel that much credit must be attached to the opinions of an officer with such large local experience as Colonel Jenkins. Rice is not an article of export from Assam, and land for producing it is available in unlimited tracts; and if the original assessment were in proportion to the means of the people, it is not likely that such a demand for rice has as yet been created by the importation of coolies for the tea factories, as would justify a general rise in the rate of rent for roopeet land.

On this point Colonel Jenkins writes:

"Of the great crops, rice is grown on a variety of lands, but the lands taxed highly are those which produce the great crop, planted out at the height of the rains and harvested in November and December, the roopeet crop of the Assamese; but I think it is universally allowed that altogether the roopeet is less profitable than the mustard seed, requiring more attention, more labor of cattle and men, and more liable to suffer from vicissitudes of season, and more uncertain from the inpudations of the rivers." and more uncertain from the inundations of the rivers."

"It was likewise generally asserted that a great deal of our suffering from the scarcity of grain was owing to the attention of the ryots being too much directed to the cultivation of mustard seed.

"It seems probable therefore that it has proved disadvantageous to the people that we have taxed the roopeet lands so much higher than the other lands, and a large supply of rice being of such very high importance in every way to the people and the planters, I should be disposed to encourage the great rice crop by making no further addition to the rates of the roopeet land; and in this opinion I am confirmed by a conversation I had at Nowgong with the principal sudder ameen of that station, formerly revenue sheristadar of Durrung, and a man of great experience and good judgment, who was altogether averse from adding to the assessment on the roopeet lands."

These reasons, which carry great weight with them, induce the Board to join Colonel Jenkins in deprecating any alteration of the rates of assessment

now levied from the roopeet lands in the province. *

16. At the same time the Board would give their cordial support to Colonel Jenkins' recommendations, made in concurrence with the opinions of the collectors of those districts, that the rate of assessment on other lands than roopeet should be raised generally from 1 Re. to 1-2 in Nowgong and Durrung, and from 14 annas in Seebsagur, and 12 annas in Luckimpore, to 1 Re.; the rates in Kamroop remaining unaltered pending the ten years' settlement, under which this district is now held.

The Board are of opinion that for the present at least the above should be the limit of the increase of assessment to be introduced into the Assam province. *

21. The second proposition made by Colonel Jenkins was to provide out of the local revenues for the general construction and periodical repair of the

roads and bridges of the province.

22. A good road through the province would greatly promote its progress; and the desultory, partial, and inefficient manner in which the repairs of the existing roads and bridges are effected, and the extension of new works of absolute necessity is protracted while they are probably owing, in some measure, to the absence of proper superintendence, are doubtless in a great degree attributable to the absence of independent funds of sufficient amount to cover the

outlay which such works require.

23. As already observed, the proprietary right in the land in Assam belongs to the Government, and the Board would propose to apply to it also. the principle of Government order sanctioning the appropriation of 3 per cent. on the collections to purposes of local improvement. Among the causes which have retarded the progress of improvement in the province, it has been complained that the small quantity of the revenue of the province expended within it is one of the greatest. A regular outlay of a certain percentage of the revenue on works of public utility, and especially in facilitating the communication between the several districts, would remedy an acknowledged defect in the present state of the province; and being spent in great measure among the agricultural population, would lead to larger clearances of waste lands, and to the general development of the resources of the country.

From the Junior Secretary to the Government of Bengal, to the Secretary to the Government of India, (No. 863A, dated Fort William, the 15th August 1861.) SIR,

From secretary to the Government of Bengal, public works department, No. 2382, dated 31st May 1861, with

ronclosure.

To officiating secretary, Board of Revenue, No. 308, dated 17th June 1861.

From ditto, No. 494, dated 16th July 1861.

I am directed to submit, for the consideration and orders of the Government of India, the accompanying copy of a correspondence* relating to a proposal for increasing the land tax in the province of Assam.

The proposal, it will be seen, emanated with the present commissioner, Captain Hopkinson, who was of opinion that the land tax in Assam should be increased double the present rate, and the excess so obtained devoted to the

construction of works of public utility in that province. The Board of Revenue, who were consulted on the subject, and whose report is annexed, do not consider it expedient that the tax should be doubled, or that an alteration should be made in the rate of assessment of every description of land. They state that the subject of an increase to the rates of assessment had been for some time under their consideration, on certain propositions submitted by Colonel Jenkins, the late commissioner; and in concurrence with the views expressed by that officer, they are of opinion that the rate of assessment on lands other than what is generally called roopeet, i.e., land on which rice is grown, may safely be increased. They accordingly propose that the rates on the lands appropriated to the growth of linseed and mustard be raised generally from 1 Re. to 1-2 in Nowgong and Durrung; and from 14 annas in Seebsaugur, and 12 annas in Luckimpore, to 1 Re. per poorah; the rates in Kamroop remaining unaltered, pending the ten years' settlement under which that district is now held.

With regard to the question of constructing roads and other works of public utility, the Board propose to apply to it the principle of the order communicated in Mr. Under-Secretary Chapman's letter No. 1142 dated the 4th of June 1859, sanctioning the appropriation of 3 per cent. on the collections to

purposes of local improvement.

5. The Lieutenant-Governor entirely agrees in the views of the Board as expressed in their report now submitted.

From the Secretary to the Government of India, to the Junior Secretary to the Government of Bengal,—(No. 1621, dated the 30th August 1861.) SIR.

I am directed to acknowledge the receipt of your letter No. 863A, dated the 15th instant, enclosing copy of a correspondence with the Board of Revenue on the subject of a proposition for increasing the land tax in the temporarily settled districts of Assam, and for applying to those districts the order of the Government of India dated the 14th June 1859, sanctioning the expenditure of 3 per cent. of the net collections from Government estates on objects calculated to improve the condition of the estates and of the ryots occupying them.

2. In reply, I am directed to state that the Governor General in Council sanctions the appropriation prospectively from 1862-63 of 3 per cent. of the land revenue of the temporarily settled districts of Assam for purposes of local improvement, and His Excellency in Council hopes that the Lieutenant-Governor will be able to make better provision for the wants of Assam in respect

of roads, &c., in the next budget.

With regard to the expediency of increasing the land assessment in Assam, I am desired to intimate that the Governor General in Council leaves that question to the discretion of the Lieutenant-Governor.

From the Under-Secretary to the Government of Bengal, to the Secretary to the Board of Revenue,—(No. 1263A, dated Fort William, the 18th December 1861.) SIR,

I am desired to acknowledge the receipt of your letter of the 12th ultime, No. 803, submitting a copy of one from the commissioner of Assam, in which, after commenting on the inadequacy of the means at his disposal for the improvement of the province in public works, he suggests that the profits from the sale of abkaree opium, which have accrued by the prohibition of the cultivation, and free use of indigenous opium in Assam, should be applied to that purpose. 2. The

The Lieutenant-Governor entirely agrees with the Board in thinking

the commissioner's proposal such as cannot be supported.

3. There is no reason why an item of ordinary imperial revenue, such as the abkaree opium revenue is, should be appropriated for local objects in Assam more than in any other province where the same item is levied. Major Hopkinson to a considerable extent misunderstands the grounds on which the rules affecting the opium revenue, and the cultivation of opium, were assimilated